



January 12, 2010



Chief, Air Enforcement and Compliance Assurance Branch  
Air and Radiation Division (AE-17J)  
USEPA, Region 5  
77 West Jackson Boulevard  
Chicago, IL 60604-3590

Attention: Enforcement Tracker

Subject: United States of America and Michigan Department of Environmental Quality v.  
Severstal North America, Inc. – Civil Action Nos. 00-75452 and 00-75454,  
USAO File No. 1999 00492, DOJ Case No. 90-5-2-1-2211/1 – Quarterly Report

Per Section V, paragraph 21 of the subject Civil Actions, attached is Severstal's quarterly report for October – December 2009.

The demonstration report for the “B” Blast Furnace Casthouse demonstration, which was completed on September 19, 2002, was submitted on October 16, 2002. Rouge Steel received the written notice of compliance from EPA pursuant to paragraph 11(d) on November 13, 2002. The list of O&M practices and emission control technologies to use on an ongoing basis was incorporated into the Consent Decree on June 25, 2004 as Appendix E. On September 24, 2007, a Stipulation was filed with the Court amending Appendix E which allows termination of the O&M practices upon full operation of a capture-type particulate emission control system.

On January 5, 2008, an eruption in the “B” Blast Furnace resulted in a breach in the furnace shell. The furnace has not been in operation since January 5, 2008 and therefore, Severstal has not been able to utilize the O&M practices in Appendix E nor have we been able to perform the visible emission monitoring required by Section 19(a). A Force Majeure notification was sent to EPA on January 11, 2008. Due to the current market conditions, repairs to “B” Blast Furnace have been temporarily suspended, and Severstal is not yet able to predict the date by which all repairs will be completed. The “B” Blast Furnace will be equipped with a capture-type particulate emission control system when it resumes operation.

The BOF demonstration was completed October 28, 2002, and the demonstration report was submitted on November 22, 2002. After completion of a dispute resolution process regarding O&M practices and emission control technologies to be used at the BOF, a Stipulation regarding BOF O&M practices was filed with the Court on October 25, 2006, and the list of O&M practices to be used at the BOF was filed with the Court and incorporated into the Consent Order on October 30, 2006 as Appendix G. On October 15, 2007, Severstal began operating a baghouse dust collector to control secondary emissions at the BOF. Accordingly, per the

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authorization in Section II of Appendix G Severstal has ceased utilization of the O&M practices set forth in Section II of Appendix G. Severstal is continuing to utilize the O&M practices set forth in Section I of Appendix G. Notice of the operation of the baghouse dust collector and the cessation of the Appendix G, Section II O&M practices was given to EPA by letter dated October 26, 2007.

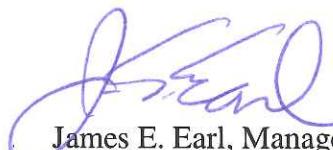
The demonstration report for the "C" Blast Furnace Casthouse demonstration, which was completed on February 7, 2003, was submitted on February 13, 2003. Rouge Steel received the written notice of compliance from EPA pursuant to paragraph 11(d) on March 17, 2003. The list of O&M practices and emission control technologies to use on an ongoing basis was incorporated into the Consent Decree on June 25, 2004 as Appendix F. On September 24, 2007, a Stipulation was filed with the Court amending Appendix F which allows termination of the O&M practices upon full operation of a capture-type particulate emission control system.

On October 19, 2007, the capture-type particulate emission control system at the "C" Blast Furnace Casthouse became fully operational. Accordingly, as authorized by Appendix F Severstal has ceased utilization of the "Ongoing Operating and Maintenance Practices (restated)" listed in Appendix F. Notice of the operation of the particulate emission control system and the cessation of O&M practices was given to EPA by letter dated October 26, 2007.

In a letter dated November 4, 2008, Severstal requested to terminate this Consent Decree since we have fulfilled all the requirements as specified in Paragraph 57. On December 30, 2008, Severstal received a response from the EPA that requested some further information from Severstal before they will terminate the decree. On January 9, 2009, Severstal supplied the requested information to the EPA. Follow-up discussions with the EPA are ongoing. In October 2009, the U.S. Department of Justice and the MDEQ were each paid \$41,326.40 in stipulated penalties for C Blast Furnace bleeder emissions.

Please feel free to contact me at (313) 845-3217, if you have any questions regarding this subject.

Very truly yours,



James E. Earl, Manager  
Environmental Engineering

Attachments

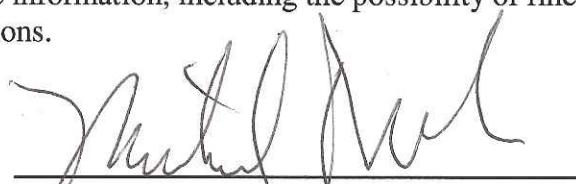
cc: Gaylene Vasaturo, Esq.  
Ms. Teresa Seidel  
Scott R. Dismukes, Esq.

**SEVERSTAL NORTH AMERICA, INC.**  
**CIVIL ACTION NOS, 00-75452 AND 0075454**

**QUARTERLY REPORT FOR OCTOBER 1 – DECEMBER 31, 2009**

<b>SECTION IV MONITORING</b>	<b>RESULTS</b>
Conduct VE Observation of "C" Blast Furnace Bleeders	See attached VE data sheets and reasons for discharges
Conduct Weekly VE Observations of "B" Blast Furnace Casthouse	No VE data due to January 5, 2008 eruption
Conduct Weekly VE Observations of BOF Roof Monitors	See attached VE data sheets
Conduct Weekly VE Observations of "C" Blast Furnace Casthouse	See attached VE data sheets
VE Observations of "B" Blast Furnace Roof Monitors when burning open taphole	None this quarter
O&M practices and Control Technologies for "B" Blast Furnace	See Exhibit A
O&M practices and Control Technologies for BOF	See Exhibit C
MDEQ ROP Report Certification and Deviation Report	See Exhibit D

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my directions and my inquiry of the person(s) who manage the system or are directly responsible for gathering the information, the information submitted in this document is true, accurate and complete to the best of my knowledge and belief. I understand that there are penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Michael T. Adams, Vice President and General Manager

11/12/09  
Date

**EXHIBIT A**  
**SEVERSTAL NORTH AMERICA, INC.**

**CIVIL ACTION NOS. 00-75452 AND 00-75454**

**OCTOBER 1 - DECEMBER 31, 2009**  
**O AND M MONITORING**  
**B BLAST FURNACE**

REQUIREMENT	RESULTS
<b><u>GENERAL</u></b>	
Use of natural gas suppression	Furnace not in operation
Tap hole/trough natural gas suppression flow rate >= 135 scfm	Furnace not in operation
Record taphole/trough natural gas suppression flow rate once per cast	Furnace not in operation
Iron runners/iron spouts natural gas suppression flow rate >= 207 scfm	Furnace not in operation
Record iron runners/iron spouts natural gas suppression flow rate once per cast	Furnace not in operation
Gas lance usage requirements	Furnace not in operation
Trough and Iron runner covers in place	Furnace not in operation
<b><u>TAPHOLE AREA</u></b>	
Taphole Burned open	Furnace not in operation

**EXHIBIT A**  
**SEVERSTAL NORTH AMERICA, INC.**

**CIVIL ACTION NOS. 00-75452 AND 00-75454**

**OCTOBER 1 - DECEMBER 31, 2009**  
**O AND M MONITORING**  
**B BLAST FURNACE**

<b>REQUIREMENT</b>	<b>RESULTS</b>
Visible emission observations within 5 minutes of starting burning open of taphole	Furnace not in operation
drill bit <= 2" diameter	Furnace not in operation
Natural gas suppression operating continuously during specified times	Furnace not in operation
<b>TROUGH</b>	
Natural gas suppression operating continuously during specified times	Furnace not in operation
Sealing of covered area	Furnace not in operation
<b>IRON RUNNERS</b>	
Natural gas suppression operating continuously during specified times	Furnace not in operation
<b>IRON SPOUTS</b>	
Natural gas suppression operating continuously during specified times	Furnace not in operation
Heating of iron ladles	Furnace not in operation

**EXHIBIT C**  
**SEVERSTAL NORTH AMERICA, INC.**

**CIVIL ACTION NOS. 00-75452 AND 00-75454**

**OCTOBER 1 - DECEMBER 31, 2009 O AND M MONITORING  
BASIC OXYGEN FURNACE**

REQUIREMENT	RESULTS
<b><u>GENERAL</u></b>	
Submit final Emission Control Alternatives to Reduce Emissions from Treadwell Cars Report to MDEQ	Report submitted on January 4, 2007
There shall be no visible emissions escaping into the shop through the expansion joints of the furnace hoods during oxygen blowing	Met every heat
<b><u>HOT METAL CHARGING</u></b>	
Hot metal charge into furnace shall not be less than 90 seconds in duration	No longer required
Furnace angle shall not be less than 320 degrees from the vertical at the beginning of the charge. The furnace angle shall not be less than 300 degrees at the end of charge, except when the hot metal charge duration is at least 120 seconds	No longer required
Humidification steam shall be in operation during hot metal charge	No longer required
Fugitive emission duct damper shall be fully opened during hot metal charge	No longer required
The furnace exhaust damper shall be fully opened during hot metal charge	No longer required
Area between the fugitive emission duct hood and furnace exhaust hood shall be totally covered with shrouds	No longer required

**EXHIBIT C**  
**SEVERSTAL NORTH AMERICA, INC.**

**CIVIL ACTION NOS. 00-75452 AND 00-75454**

**OCTOBER 1 - DECEMBER 31, 2009 O AND M MONITORING  
BASIC OXYGEN FURNACE**

REQUIREMENT	RESULTS
<b>OXYGEN BLOWING</b>	
Fugitive emission duct damper shall be closed during oxygen blowing	No longer required
The furnace exhaust damper shall be fully opened during oxygen blowing	No longer required
Oxygen blow rate shall not exceed 24,500 scfm	No longer required
Oxygen blow rate shall be reduced to approximately 18,000 scfm during and between minutes 8 and 14 of the blow	No longer required
<b>TURNDOWN</b>	
If any emissions during initial turndown that are not captured by the furnace hood, upright vessel. If during a second turndown, there are any emissions that are not captured by the hood, there shall be no more turndowns for that heat	No longer required
<b>TAPPING</b>	
The furnace exhaust hood shall be used to capture emissions from all tapping operations until any addition of conditioners to the steel ladle are complete	No longer required

**EXHIBIT C**  
**SEVERSTAL NORTH AMERICA, INC.**

**CIVIL ACTION NOS. 00-75452 AND 00-75454**

**OCTOBER 1 - DECEMBER 31, 2009 O AND M MONITORING  
BASIC OXYGEN FURNACE**

<b>REQUIREMENT</b>	<b>RESULTS</b>
<b>ESP</b>	
Visible emission reading for the ESP stack for two consecutive hours each day one or more complete compartments is out of service	No longer required
<b>VESSEL OPERATIONS</b>	
Shall not hot metal charge and tap and hot metal charge and oxygen blow simultaneously	No longer required

## **EXHIBIT D**

**DEQ**  
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION

**RENEWABLE OPERATING PERMIT  
REPORT CERTIFICATION**

Authorized by 1994 P.A. 451, as amended. Failure to provide this information may result in civil and/or criminal penalties.

Reports submitted pursuant to R 336.1213 (Rule 213), subrules (3)(c) and/or (4)(c), of Michigan's Renewable Operating Permit (ROP) program must be certified by a responsible official. Additional information regarding the reports and documentation listed below must be kept on file for at least 5 years, as specified in Rule 213(3)(b)(ii), and be made available to the Department of Environmental Quality, Air Quality Division upon request.

Source Name Severstal North America, Inc. County Wayne  
Source Address 4001 Miller Road City Dearborn  
AQD Source ID (SRN) A8640 ROP No. 199700004 ROP Section No. 1

Please check the appropriate box(es):

**Annual Compliance Certification (Pursuant to Rule 213(4)(c))**

Reporting period (provide inclusive dates): From \_\_\_\_\_ To \_\_\_\_\_

- 1. During the entire reporting period, this source was in compliance with ALL terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference. The method(s) used to determine compliance is/are the method(s) specified in the ROP.
- 2. During the entire reporting period this source was in compliance with all terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference, EXCEPT for the deviations identified on the enclosed deviation report(s). The method used to determine compliance for each term and condition is the method specified in the ROP, unless otherwise indicated and described on the enclosed deviation report(s).

**Semi-Annual (or More Frequent) Report Certification (Pursuant to Rule 213(3)(c))**

Reporting period (provide inclusive dates): From \_\_\_\_\_ To \_\_\_\_\_

- 1. During the entire reporting period, ALL monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred.
- 2. During the entire reporting period, all monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred, EXCEPT for the deviations identified on the enclosed deviation report(s).

**Other Report Certification**

Reporting period (provide inclusive dates): From 10/1/09 To 12/31/09

Additional monitoring reports or other applicable documents required by the ROP are attached as described:

United States of America and Michigan Department of Environmental Quality v.

Severstal North America, Inc. - Civil Action Nos. 00-75452

and 00-75454, USAO File No. 1999 00492, DOJ Case No.90-5-2-1-2211/1 - Quarterly Report

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this report and the supporting enclosures are true, accurate and complete

Michael T. Adams

V. P. and General Manager

(313) 317-8955

Name of Responsible Official (print or type)

Title

Phone Number



1/12/10

Signature of Responsible Official

Date



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION

**RENEWABLE OPERATING PERMIT  
DEVIATION REPORT**

*Authorized by 1994 P.A. 451, as amended. Failure to provide this information may result in civil and/or criminal penalties.*

This form may be submitted in conjunction with the Renewable Operating Permit Report Certification form (EQP 5736) to report deviations from all general conditions and special conditions in the Renewable Operating Permit (ROP) for which deviations required to be reported by R 336.1213 (Rule 213) subrule (3)(c) have occurred. Additional information regarding the reports and documentation listed below must be kept on file for at least 5 years, as specified in Rule 213(3)(b)(ii), and be made available to the Department of Environmental Quality, Air Quality Division, upon request. Items 1 - 8 must be completed for all deviations being reported.

Source Name Severstal North America, Inc. County Wayne

Source Address 4001 Miller Road City Dearborn

AQD Source ID (SRN) A8640 ROP No. 199700004 ROP Section No. 1

ROP Section Contact James E. Earl Contact Phone No. (313) 845-3217

Reporting Period (provide inclusive dates): From 10/01/09 to 12/31/09

Report Type:  Annual  Semi Annual  Other (Describe) USEPA Consent Decree Quarterly Report

1. Group or Source Wide ID <u>EGBBFCASTHOUSE</u>	2. Condition No. <u>III.B.3.1</u>	3. Date(s) of Occurrence <u>Starting 10/1/09</u>	4. Previously reported ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Date	5. Duration of Deviation <u>13 weeks</u>
6. Method Used to Determine Compliance Status (if different from method specified in ROP)		7. Description of Deviation Did not conduct weekly visible emission observations of roof monitor. See our January 11, 2008 letter to EPA for details.		
8. Reason for Deviation and Description of Corrective Action Taken Due to an eruption of B Blast Furnace on January 5, 2008, B Blast Furnace has not been in operation and therefore, Severstal was unable to perform the visible observations.				

1. Group or Source Wide ID <u>EGCBFBLEEDERS</u>	2. Condition No. <u>II.B</u>	3. Date(s) of Occurrence <u>12/16/09</u>	4. Previously reported ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Date	5. Duration of Deviation <u>6 minutes</u>
6. Method Used to Determine Compliance Status (if different from method specified in ROP)		7. Description of Deviation Six minute average opacity was 43% from the C BF bleeders.		
8. Reason for Deviation and Description of Corrective Action Taken Occurred during shutdown of furnace. Furnace was shutdown in accordance with our Startup Shutdown and Malfunction Plan and shutdown procedures. No root cause has been determined.				

1. Group or Source Wide ID <u>EGBBFCASTHOUSE</u>	2. Condition No. <u>V.3</u>	3. Date(s) of Occurrence <u>Starting 10/1/09</u>	4. Previously reported ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Date	5. Duration of Deviation <u>92 days</u>
6. Method Used to Determine Compliance Status (if different from method specified in ROP)		7. Description of Deviation Operation and maintenance practices were not utilized on an ongoing basis. See our January 11, 2008 letter to EPA for details.		
8. Reason for Deviation and Description of Corrective Action Taken Due to an eruption of B Blast Furnace on January 5, 2008, B Blast Furnace has not been in operation and therefore, Severstal was unable to utilize the operation and maintenance practices.				

## SEVERSTAL NORTH AMERICA, INC.

**C BLAST FURNACE BLEEDER DISCHARGES**  
**4th QUARTER 2009**

Date	Bleeders Opened	Visible Emissions Reading Start Time	Emissions End Time	Reason for Bleeder Discharge	Steps taken to minimize future discharges
10/9/2009	11:24 AM	11:24 AM	11:31 AM	Bleeders opened as part of shutdown procedures during shutdown of blast furnace due to changing #2 tuyere	Shutdown procedures and SSM plan followed, including use of revised blast pressure of 5 lbs. Used steam in uptakes as a trial to further reduce emissions.
10/14/2009	4:07 PM	4:07 PM	4:54 PM	Bleeders opened as part of startup procedures after tuyere breakout	Startup procedures and SSM plan followed, minimized time bleeders were open
10/15/2009	10:11 AM	10:11 AM	10:23 AM	Bleeders opened as part of shutdown procedures during shutdown of blast furnace due to repacking #9 tuyere	Shutdown procedures and SSM plan followed, including use of revised blast pressure of 5 lbs. Used steam in uptakes as a trial to further reduce emissions.
10/15/2009	2:07 PM	2:07 PM	2:38 PM	Bleeders opened as part of shutdown procedures during shutdown of blast furnace due to changing #2 tuyere	Shutdown procedures and SSM plan followed, including use of revised blast pressure of 5 lbs. Used steam in uptakes as a trial to further reduce emissions.
10/20/2009	10:32 AM	10:32 AM	10:53 AM	Bleeders opened as part of shutdown procedures during shutdown of blast furnace due to changing #2 tuyere	Shutdown procedures and SSM plan followed, including use of revised blast pressure of 5 lbs. Used steam in uptakes as a trial to further reduce emissions.
11/19/2009	8:35 AM	8:48 AM	8:48 AM	Emergency shutdown - furnace cold and iron on casthouse floor	Shutdown procedures and SSM plan followed, including use of revised blast pressure of 5 lbs. Used steam in uptakes as a trial to further reduce emissions.
11/23/2009	11:45 AM	11:46 AM	12:00 PM	Shutdown due to a tuyere issue	Shutdown procedures and SSM plan followed, including use of revised blast pressure of 5 lbs.
11/24/2009	12:47 PM	12:47 PM	1:17 PM	Bleeders opened as part of shutdown procedures during shutdown of blast furnace due to changing tuyere peep sight	Shutdown procedures and SSM plan followed, including use of revised blast pressure of 5 lbs.
12/8/2009	4:21 PM	4:21 PM	4:30 PM	Bleeders opened as part of shutdown procedures during shutdown of blast furnace due to changing #14 and # 16 tuyeres	Shutdown procedures and SSM plan followed, including use of revised blast pressure of 5 lbs. Used steam in uptakes as a trial to further reduce emissions.
12/16/2009	11:15 AM	11:15 AM	11:39 AM	Bleeders opened as part of shutdown procedures during shutdown of blast furnace due to changing #20 tuyere	Shutdown procedures and SSM plan followed, including use of revised blast pressure of 5 lbs.
12/23/2009	8:39 AM	8:39 AM	8:42 AM	Bleeders opened as part of shutdown procedures during shutdown of blast furnace due to changing #13 and #20 tuyeres	Shutdown procedures and SSM plan followed, including use of revised blast pressure of 5 lbs. Used steam in uptakes as a trial to further reduce emissions.
12/30/2009	10:02 AM	10:02 AM	10:09 AM	Bleeders opened as part of shutdown procedures during shutdown of blast furnace due to changing #14 and #18 tuyeres	Shutdown procedures and SSM plan followed, including use of revised blast pressure of 5 lbs. Used steam in uptakes as a trial to further reduce emissions.

Prepared by: J. E. Earl

January 12, 2010

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/30/09
OBSERVER: R. BINGHAM
START: 10:02 am pm
FINISH: 11:02 am pm
Source:
BLOST FURNACE C
BLDGOCNS
Observation Point
PCI STORAGE PARKING LOT
distance from: 700'
direction from: S6°
source height:
200'
wind direction S
wind speed 5-10 MPH
sky condition overcast
amb. temp. (F) 20°-25°
color of emissions
WHITE UNLESS NOTED
other:
STEAM STORED AT 10:03
Remarks:
(1) BLACK SMOKE OR DUST
(2) BROWN IN COLOR
Observer's Signature

10:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	0	0	0	0	
1						31	0	0	0	0	
2	0	0	0	0		32	0	0	0	0	
3	0	60	0	20	(1)(2)	33	0	0	0	0	
4	15	15	10	15	(1)(2)	34	0	0	0	0	
5	10	15	10	10	(2)	35	0	0	0	0	
6	10	10	15	10	(2)	36	0	0	0	0	
7	10	15	10	15	(2)	37	0	0	0	0	
8	15	10	5	0	(2)	38	0	0	0	0	
9	0	0	0	0		39	0	0	0	0	
10	0	0	0	0		40	0	0	0	0	
11	0	0	0	0		41	0	0	0	0	
12	0	0	0	0		42	0	0	0	0	
13	0	0	0	0		43	0	0	0	0	
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Last Certification Date 10/67/09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

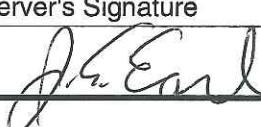
DATE: 12/30/05
OBSERVER: R. Bingham
START: 11:02 am pm
FINISH: 11:02 am pm
Source:
BLAST FURNACE C
PLUGGERS
Observation Point
PCI STORAGE PARKING LOT
distance from:
direction from:
source height:
wind direction
wind speed
sky condition
amb. temp. (F)
color of emissions
other:
Remarks,
Observer's Signature

11:00

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30					
1	0	0	0	0		31					
2						32					
3						33					
4						34					
5						35					
6						36					
7						37					
8						38					
9						39					
10						40					
11						41					
12						42					
13						43					
14						44					
15						45					
16						46					
17						47					
18						48					
19						49					
20						50					
21						51					
22						52					
23						53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					

Last Certification Date 10/07/09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE:	12/23/09
OBSERVER:	J. Earl
START:	8:39 am pm
FINISH:	8:47 am pm
Source:	CBF Bleeders
Observation Point	West Blast Slip Road
distance from:	1000
direction from:	SW
source height:	250'
wind direction	NE
wind speed	0-5 mph
sky condition	At. Cloudy
amb. temp. (F)	25
color of emissions	Gray / white
other;	Bleeders opened at 8:39 AM
Remarks;	
Observer's Signature	

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30					
1						31					
2						32					
3						33					
4						34					
5						35					
6						36					
7						37					
8						38					
9						39	5	5	5	5	
10						40	5	5	5	5	
11						41	5	5	5	5	
12						42	0	0	0	0	
13						43	0	0	0	0	
14						44	0	0	0	0	
15						45	0	0	0	0	
16						46	0	0	0	0	
17						47	0	0	0	0	
18						48					
19						49					
20						50					
21						51					
22						52					
23						53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					

Last Certification Date Oct. 2009

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/16/09
OBSERVER: R.BINENAM
START: 11:15 am pm
FINISH: 11:43 am pm
Source:
C FURNACE, BLASTED IRIS
Observation Point
EGG SIDE OF BOF SLIP
NEAR BOF BAGHOUSE
distance from: 1100'
direction from: SW
source height:
200'-250'
wind direction W
wind speed 5-10 mph
sky condition SCATTERED
amb. temp. (F) 20°-25°
color of emissions
GREY UNLESS NOTED
other:
Remarks;

Observer's Signature

10:00						10:00					
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	5	5	10	5	
1						31	5	5	5	5	
2						32	5	5	5	5	
3						33	5	5	5	5	
4						34	5	5	5	5	
5						35	5	5	5	5	
6						36	5	5	5	5	
7						37	5	5	0	5	
8						38	0	5	0	0	
9						39	0	0	0	0	
10						40	0	0	0	0	
11						41	0	0	0	0	
12						42	0	0	0	0	
13						43					
14						44					
15	60	50	50	40		45					
16	40	40	40	40		46					
17	30	40	40	50		47					
18	50	50	40	35		48					
19	35	40	50	50		49					
20	50	40	40	40		50					
21	35	50	30	30		51					
22	20	15	15	15		52					
23	20	20	25	25		53					
24	20	20	20	75		54					
25	15	15	15	15		55					
26	15	15	10	10		56					
27	10	10	10	5		57					
28	5	5	5	5		58					
29	5	5	5	5		59					

Last Certification Date 10/07/09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE:	12 - 08 - 2009
OBSERVER:	
START:	am 4:21 pm
FINISH:	am 4:40pm
Source:	"C" Furnace Bleachers
Observation Point	NW - Ford WWTP Parking lot
distance from:	500
direction from:	NW
source height:	250'
wind direction	NW
wind speed	0 - 1 mph
sky condition	Cloudy, no sun.
amb. temp. (F)	30° - light
color of emissions	white
other;	
Remarks;	light snow started Shut down/ Bleachers opened @ 4:21 pm
Observer's Signature	<i>[Signature]</i>

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	0	0	0	0	
1						31	0	0	0	0	
2						32	0	0	0	0	
3						33	0	0	0	0	
4						34	0	0	0	0	
5						35	0	0	0	0	
6						36	0	0	0	0	
7						37	0	0	0	0	
8						38	0	0	0	0	
9						39	0	0	0	0	
10						40	0	0	0	0	
11						41					
12						42					
13						43					
14						44					
15						45					
16						46					
17						47					
18						48					
19						49					
20						50					
21	20	30	20	20		51					
22	15	15	10	10		52					
23	10	10	10	10		53					
24	10	10	10	10		54					
25	10	10	10	5		55					
26	5	5	5	5		56					
27	5	5	5	5		57					
28	0	0	0	0		58					
29	10	0	0	0		59					

Last Certification Date 10 - 2009

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE:	11-24-09
OBSERVER:	TED BISHOP
START:	am 12:47 pm
FINISH:	am 1:19 pm
Source:	C FURNACE BLEEDERS
Observation Point	West side of Boat Slip
distance from:	~ 800'
direction from:	West
source height:	~ 240'
wind direction from SW	
wind speed	~ 10 mph
sky condition	cloudy & foggy
amb. temp. (F)	49°F
color of emissions	
other:	Bleeders open @ 12:47pm
(NOTE: emergency shutdown again)	
Remarks:	A steam & dark grey emissions A mostly steam B grey emissions
Observer's Signature	<i>Ted Bishop</i>

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30					
1						31					
2						32					
3						33					
4						34					
5						35					
6						36					
7						37					
8						38					
9						39					
10						40					
11						41					
12						42					
13						43	12:00 PM				
14						44					
15						45					
16						46	0	0	0	0	
17						47	35	35	30	30	A
18						48	30	30	30	30	
19						49	25	25	25	20	
20						50	20	15	10	15	A
21						51	10	10	10	5	
22						52	5	5	5	5	
23						53	5	5	5	5	
24						54	10	10	10	15	A
25						55	15	10	10	10	
26						56	5	5	5	5	A
27						57	5	5	5	5	
28						58	5	5	5	5	
29						59	5	5	5	5	

Last Certification Date 10/2009

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE:	11-24-09
OBSERVER:	TED BISHOP
START:	am 12:47 pm
FINISH:	am 1:19 pm
Source:	C FURNACE BLEEDERS
Observation Point	See page 1
distance from:	
direction from:	
source height:	
wind direction	7
wind speed	Same
sky condition	< as
amb. temp. (F)	Page 1
color of emissions	
other;	
Remarks:	<p>A all steam; shutdown complete</p> <p>A RESTARTING - heavy steam &amp; light grey emissions</p> <p>A all bleeders closed</p>
Observer's Signature	Ted Bishop

1:00 PM											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	5	5	5	5		30					
1	0	0	0	0	A	31					
2	0	0	0	0		32					
3	0	0	0	0		33					
4	0	0	0	0		34					
5	0	0	0	0		35					
6	0	0	0	0		36					
7	0	0	0	0		37					
8	0	0	0	0		38					
9	0	0	0	0		39					
10	0	0	0	0		40					
11	5	5	5	5	A	41					
12	10	10	10	15		42					
13	15	15	15	15		43					
14	10	10	15	15		44					
15	10	10	15	15		45					
16	10	10	5	0	A	46					
17	0	0	0	0		47					
18	0	0	0	0		48					
19	0	0	0	0		49					
20						50					
21						51					
22						52					
23						53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					

Last Certification Date

10/2009

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

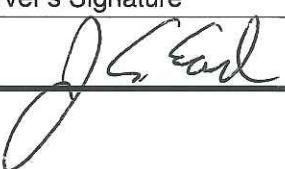
DATE:	11-23-09
OBSERVER:	TED BISHOP
START:	11:45 am pm
FINISH:	am 12:05 pm
Source:	C FURNACE BLEEDERS
Observation Point	West side of Boat Slip
distance from:	~ 800'
direction from:	West
source height:	240'
wind direction	from South
wind speed	10-15 mph
sky condition	cloudy
amb. temp. (F)	51°F
color of emissions	see remarks
other:	<b>A</b> NOTE! Missed 1st minute due to short notice because emergency shutdown
Remarks:	<ul style="list-style-type: none"> <li><b>A</b> brownish grey emissions</li> <li><b>A</b> mostly steam; some brown</li> <li><b>A</b> mostly light steam w/ light whitish emissions</li> </ul>
Observer's Signature	

12:00 PM											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30					
1	0	0	0	0		31					
2	0	0	0	0		32					
3	0	0	0	0		33					
4	0	0	0	0		34					
5	0	0	0	0		35					
6						36					
7						37					
8						38					
9						39					
10						40					
11						41					
12						42					
13						43	11:00 AM				
14						44					
15						45		*	*	Bleeders opened	
16						46	*	*	30	30	Began reading
17						47	30	25	25	25	<b>A</b>
18						48	25	25	25	25	
19						49	20	20	15	15	
20						50	15	10	10	10	<b>A</b>
21						51	10	10	10	10	
22						52	10	5	5	5	
23						53	5	5	5	5	<b>A</b>
24						54	5	5	5	5	
25						55	5	5	5	5	
26						56	5	5	5	5	
27						57	5	5	5	5	
28						58	5	5	5	5	
29						59	5	5	5	0	

Last Certification Date 10/2009

\* Bleeders open at ~ 11:45:30 am;  
not in position to read until  
1 minute later

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

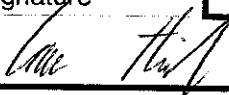
DATE:	11-19-09
OBSERVER:	J. Earl
START:	8:48 am pm
FINISH:	8:53 am pm
Source:	CBF Bleeders
Observation Point	Gate 3 Parking Lot
distance from:	600'
direction from:	SE
source height:	250'
wind direction	SW
wind speed	~5
sky condition	Overcast
amb. temp. (F)	50
color of emissions	
other:	Bleeders already open upon arrival to perform VES
Remarks:	Emergency shutdown due to iron overflowing through
Observer's Signature	

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30					
1						31					
2						32					
3						33					
4						34					
5						35					
6						36					
7						37					
8						38					
9						39					
10						40					
11						41					
12						42					
13						43					
14						44					
15						45					
16						46					
17						47					
18						48	0	0	0	0	
19						49	0	0	0	0	
20						50	0	0	0	0	
21						51	0	0	0	0	
22						52	0	0	0	0	
23						53	0	0	0	0	
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					

Last Certification Date

Oct 09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE:	10 - 20 - 2009
OBSERVER:	L. Trinh
START:	10:32 am pm
FINISH:	10:59 am pm
Source:	"C" Furnace Bleachers
Observation Point	Miller Road Parking lot
distance from:	1500 ft
direction from:	SE
source height:	250'
wind direction	W
wind speed	1-3 mph
sky condition	Scatter
amb. temp. (F)	52°F
color of emissions	White
other:	
Remarks:	Bleachers opened @ 10:32 am
Observer's Signature	

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30					
1						31					
2						32	40	5	0	10	
3						33	0	0	0	0	
4						34	0	0	0	0	
5						35	0	5	0	0	
6						36	5	5	5	5	
7						37	5	5	5	15	
8						38	35	35	25	20	
9						39	20	20	20	20	
10						40	20	20	20	20	
11						41	20	20	20	15	
12						42	15	15	20	20	
13						43	15	20	15	15	
14						44	20	20	20	20	
15						45	20	20	15	20	
16						46	20	20	15	15	
17						47	15	15	10	10	
18						48	10	10	10	10	
19						49	15	10	10	15	
20						50	15	5	5	5	
21						51	5	5	5	5	
22						52	5	5	5	0	
23						53	0	0	0	0	
24						54	0	0	0	0	
25						55	0	0	0	0	
26						56	0	0	0	0	
27						57	0	0	0	0	
28						58	0	0	0	0	
29						59	0	0	0	0	

Last Certification Date 10 - 2009

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

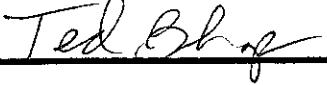
DATE: 10-15-09
OBSERVER: T. Sitarzki
START: am 207 pm
FINISH: am pm
Source: Bleeders
C Blast Furnace
Observation Point Across Boat Slip near dumpster
distance from: 600-650'
direction from: NW
source height: 200-230'
wind direction NE
wind speed 10-15
sky condition overcast
amb. temp. (F) 45-50
color of emissions
White Unless Noted
other: A Gray smoke from both bleeders
Bleeders open @ 2:08 pm
Remarks:
* Received coil at 2:06 that opening of bleeders is imminent
Observer's Signature

2:00 PM

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	○	○	5	○	
1						31	○	○	○	○	
2	○	○	○	○		32	○	○	5	5	
3	○	○	○	○		33	○	○	○	○	
4	○	○	○	○		34	○	○	○	○	
5	○	○	○	○		35	○	○	○	○	
6	○	○	○	○		36	○	○	○	○	
7	○	○	○	5	A	37	○	○	○	○	
8	10	15	15	10	"	38	○	○	○	○	
9	5	5	10	10	"	39	○	○	○	○	
10	15	15	15	15	"	40	○	○	○	○	
11	10	10	10	10	"	41	○	○	○	○	
12	10	10	10	10	"	42	○	○	○	○	
13	15	15	10	10	"	43	○	○	○	○	
14	15	15	15	15	"	44	○	○	○	○	
15	15	20	20	20	"	45	○	○	○	○	
16	15	15	15	20	"	46	○	○	○	○	
17	20	15	15	15	"	47	○	○	○	○	
18	15	10	10	10	"	48	○	○	○	○	
19	10	10	5	5	"	49	○	○	○	○	
20	5	5	5	5	"	50	○	○	○	○	
21	5	5	5	5	"	51	○	○	○	○	
22	5	5	5	5	"	52	○	○	○	○	
23	5	5	5	5	"	53	○	○	○	○	
24	5	5	5	5	"	54	○	○	○	○	
25	5	5	5	0	"	55	○	○	○	○	
26	○	○	○	○		56	○	○	○	○	
27	○	5	5	5	"	57	○	○	○	○	
28	5	5	5	5	"	58	○	○	○	○	
29	○	○	○	○		59	○	○	○	○	

Last Certification Date 10-6-09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE:	10/15/09
OBSERVER:	TED BISHOP
START:	10:11 am pm
FINISH:	10:26 am pm
Source:	C FURNACE BLEEDERS
Observation Point	FOB PARKING LOT
distance from:	~900'
direction from:	N/NE
source height:	~250'
wind direction	E/NE (from)
wind speed	~10 mph
sky condition	43°F
amb. temp. (F)	overcast
color of emissions	
other:	Bleeders open @ 10:11 AM
Remarks:	A mostly steam, with trailing whitish grey emissions B all steam
Observer's Signature	

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30					
1						31					
2						32					
3						33					
4						34					
5						35					
6						36					
7						37					
8						38					
9						39					
10						40					
11	0	5	5	5	A	41					
12	5	5	5	5		42					
13	5	5	5	5		43					
14	10	5	5	10		44					
15	10	10	10	10		45					
16	5	5	10	15		46					
17	15	10	10	10		47					
18	10	10	5	5		48					
19	5	5	5	5		49					
20	5	10	10	5		50					
21	5	5	0	0		51					
22	0	5	0	0	A	52					
23	0	0	0	0		53					
24	0	0	0	0		54					
25	0	0	0	0		55					
26	0	0	0	0		56					
27						57					
28						58					
29						59					

Last Certification Date

10/6/09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE:	10-14-09
OBSERVER:	T. Storksi
START:	(4:01) am 4:07 pm
FINISH:	am 4:54 pm
Source:	Bleeders C-Blast Furnace
Observation Point	Across Boat Slip near receiving dock distance from: 750-700' direction from: NW source height: 200-230'
wind direction	ENE
wind speed	8-12 mph
sky condition	Mostly cloudy
amb. temp. (F)	45-50
color of emissions	White unless noted
other:	A Light Brown emissions from N side bleeder B Light Brown emissions out of bleeders (N+S)
Remarks:	* Bleeders open at 4:07 with primarily steam * Ted noted live chart at 4:12 to begin reading * Bleeder's closed at 4:54
Observer's Signature	

4:00 PM (START UP)

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	S	S	S	S	A
1						31	O	O	O	O	
2						32	O	O	O	O	
3						33	S	S	S	O	A
4						34	S	O	O	O	
5						35	S	S	O	O	
6						36	O	O	O	O	
7	O	O	O	O		37	O	O	O	O	
8	O	O	O	O		38	O	O	O	O	
9	O	O	O	O		39	O	O	G	O	
10	O	O	O	O		40	O	O	O	O	
11	O	O	O	O		41	O	O	O	O	
12	O	O	O	O		42	O	O	S	S	
13	O	O	O	O		43	S	S	O	O	
14	O	O	O	O		44	O	O	O	O	
15	S	S	O	O	A	45	O	O	S	S	
16	S	S	S	S	A	46	S	S	S	S	
17	S	S	S	S	"	47	S	S	S	O	
18	S	S	S	S	"	48	O	O	S	S	
19	O	O	O	O		49	S	S	O	O	
20	S	S	S	S	"	50	O	O	S	S	
21	S	S	O	O	"	51	S	S	10	10	
22	S	S	O	O	"	52	10	10	S	S	
23	O	O	S	S	"	53	S	S	S	S	
24	S	S	O	O	"	54	O	O	O	O	
25	O	O	O	O		55	O	O	O	O	
26	O	O	O	O		56	O	O	O	O	
27	S	S	S	S		57	O	O	O	O	
28	S	S	O	O		58	O	O	O	O	
29	O	O	O	O		59	O	O	O	O	

Last Certification Date 10-6-09

Note: Bleeder open @ 4:07 pm and  
wind starts @ 4:07 pm

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE:	10/9/09
OBSERVER:	J. Earl
START:	11:24 am pm
FINISH:	11:35 am pm
Source:	CBF Bleeters
Observation Point	11/road new Row
distance from:	600'
direction from:	W
source height:	250'
wind direction	NE
wind speed	5-10
sky condition	Overcast-tran
amb. temp. (F)	52
color of emissions	Gray
other;	Attached Steam Puff
Remarks;	Bleeder opened at 11:25AM Charge #2 tuyere

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	5	5	5	5	
1						31	0	0	0	0	
2						32	0	0	0	0	
3						33	0	0	0	0	
4						34	0	0	0	0	
5						35	0	0	0	0	
6						36					
7						37					
8						38					
9						39					
10						40					
11						41					
12						42					
13						43					
14						44					
15						45					
16						46					
17						47					
18						48					
19						49					
20						50					
21						51					
22						52					
23						53					
24	0	0	0	0		54					
25	0	10	10	10		55					
26	10	10	10	10		56					
27	10	10	10	10		57					
28	5	5	5	5		58					
29	5	5	5	5		59					

Observer's Signature

Last Certification Date Oct 09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/28/07
OBSERVER: R. Bingham
START: 10:00 am pm
FINISH: am 12:00 pm
Source:
BOF ROOF MONITORS
Observation Point
GRAVEL AREA SW OF BLAST FURNACE SLAB PIS
distance from: 1100'
direction from: SE
source height:
200' - 250'
wind direction SW
wind speed 10-15 mph
sky condition overcast/snow
amb. temp. (F) 20°- 25°
color of emissions
WHITE UNLESS NOTED
other:
Heat Nos. 55302 55303
Remarks;
(1) STEAM STARTED (2) STEAM ENDED
Observer's Signature

10:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	0	0	0	0	A
1	0	0	0	0		31	0	0	0	0	
2	0	0	0	0		32	0	0	0	0	
3	0	0	0	0		33	0	0	0	0	
4	0	0	0	0		34	0	0	0	0	
5	0	1	0	0	12	35	0	0	0	0	
6	0	0	0	0		36	0	0	0	0	
7	0	0	0	0		37	0	0	0	0	
8	0	0	0	0		38	0	0	0	0	
9	0	0	0	0		39	0	0	0	0	
10	0	0	0	0		40	0	0	0	0	
11	0	0	0	0		41	0	0	0	0	
12	0	0	0	0		42	0	0	0	0	
13	0	0	0	0		43	0	0	0	0	
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/28/07
OBSERVER: R. BINGHAM
START: 10:00 am pm
FINISH: am 12:06 PM
Source:
BOP ROOF MONITORS
Observation Point
GROUND AREA S/W OF BLAST FURNACE SLAG PITS
distance from: 1100'
direction from: SW
source height:
200'-250'
wind direction SW
wind speed 5-10 MPH
sky condition OVERCAST / SNOW
amb. temp. (F) 20°-25°
color of emissions
UNLISTED-UNLESS NOTED
other:
Remarks;
<input checked="" type="checkbox"/> 1 STEAM STARTED
<input checked="" type="checkbox"/> 2 STEAM ENDED
<input checked="" type="checkbox"/> 3 GRAY IN COLOR/UNABLE TO DETERMINE IF STEAM OR SMOKE/CONTAIN OF BOP
<input checked="" type="checkbox"/> 4 RUSTY COLOR
Observer's Signature

11:00

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	0	0	0	0	
1	0	0	0	0		31	0	0	0	0	
2	0	0	0	0		32	0	0	0	0	
3	0	0	0	0		33	0	0	0	0	
4	0	0	0	0		34	0	0	0	0	
5	0	0	0	0		35	0	0	0	0	
6	0	0	0	0		36	0	0	0	0	
7	0	0	0	0		37	0	0	0	0	
8	0	0	0	0		38	0	0	0	0	
9	0	0	0	0		39	0	0	0	0	
10	0	0	0	0		40	0	0	0	0	
11	0	0	0	0		41	0	0	0	0	
12	0	0	0	0		42	0	0	0	0	
13	0	0	0	0		43	0	0	0	0	
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	15	13	52	0	0	0	0	
23	10	0	0	0	13	53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	10	0	0	0	14
26	0	0	0	0		56	0	5	20	10	14
27	0	0	0	0		57	5	10	20	15	14
28	0	0	0	0		58	5	5	0	5	14
29	0	0	0	0		59	0	0	0	0	

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/28/09
OBSERVER: R. BINGHAM
START: 10:00 <u>am</u> <u>pm</u>
FINISH: <u>am</u> 12:06 <u>pm</u>
Source:
BuF Roof Monitors
Observation Point
GROVEL AREA SW OF BLAST
FURNACE SLAG PILE
distance from: 1100'
direction from: SE
source height:
200'-250'
wind direction SW
wind speed 5-10 MPH
sky condition OVERCAST/SNOW
amb. temp. (F) 20°-25°
color of emissions
WHITE UNLESS NOTED
other:
Remarks:
<input checked="" type="checkbox"/> STEAM SPOTTED
<input checked="" type="checkbox"/> STEAM CLOUDS
<input checked="" type="checkbox"/> RUSTY COLOR
Observer's Signature

12:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30					
1	0	0	0	0		31					
2	0	0	0	0		32					
3	0	0	0	5	(4)	33					
4	0	0	0	0		34					
5	0	0	0	0		35					
6						36					
7						37					
8						38					
9						39					
10						40					
11						41					
12						42					
13						43					
14						44					
15						45					
16						46					
17						47					
18						48					
19						49					
20						50					
21						51					
22						52					
23						53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					

Last Certification Date 10/07/09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/21/07
OBSERVER: P. BINGHAM
START: 9:30 am pm
FINISH: 11:31 am pm
Source:
BOF ROOF MONITORS
Observation Point
DIST AREA S/W OF BLAST
FURNACE SLAG PIT
distance from: 1200'
direction from: SE
source height:
200'-250'
wind direction SW
wind speed 5-10 MPH
sky condition OVERCAST
amb. temp. (F) 25°-30°
color of emissions
WHITE UNLESS NOTED
other:
COLLED AND CONFIRMED AT 11:30
Remarks:
<input checked="" type="checkbox"/> STEAM STARTED
<input checked="" type="checkbox"/> STEAM ENDED
<input checked="" type="checkbox"/> BROWN IN COLOR
+ NORTH END OF BOF

9:00							10:00						
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS		
0						30	0	0	0	0			
1						31	0	0	0	0			
2						32	0	0	0	0			
3						33	0	0	0	0			
4						34	0	6	0	0			
5						35	0	0	0	0			
6						36	0	0	0	0			
7						37	6	0	0	0			
8						38	0	0	0	0			
9						39	0	0	0	0			
10						40	0	0	0	0			
11						41	6	0	0	0			
12						42	0	0	0	0			
13						43	0	0	0	0			
14						44	0	0	0	0			
15						45	0	0	0	0			
16						46	0	0	0	0			
17						47	0	0	0	0			
18						48	0	0	0	0			
19						49	0	0	0	0			
20						50	0	0	0	0			
21						51	0	0	0	0			
22						52	0	0	0	0			
23						53	0	0	0	0			
24						54	0	0	0	0			
25						55	6	0	0	0			
26						56	0	0	0	0			
27						57	0	0	0	0			
28						58	0	0	0	0			
29						59	0	0	0	0			

Observer's Signature

P.B.B.

Last Certification Date 10/07/07

Heat Nos. 16049  
55205  
16050

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE:	12/21/09
OBSERVER:	R. BINGHAM
START:	9:30 am pm
FINISH:	11:31 am pm
Source:	BOF ROOF MONITORS
Observation Point	DIRE DIRECTION S/W OF BLOSS FURNACE SLAG PIP
distance from:	1200'
direction from:	56°
source height:	200'-250'
wind direction	S/W
wind speed	5-10 MPH
sky condition	OVERCAST
amb. temp. (F)	30°-35°
color of emissions	WHITE UNLESS NOTED
other:	CALLED AND CONFIRMED AT 11:30
Remarks:	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> STEAM STOPPED</li> <li><input checked="" type="checkbox"/> STEAM ON/OFF</li> <li><input checked="" type="checkbox"/> BROWN IN COLOR</li> <li><input checked="" type="checkbox"/> WHITE EMISSIONS LOOKS LIKE LIME CONCRETE</li> <li>+ NORTH END OF BOF</li> </ul>

10:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	0	0	0	0	
1	0	0	30	40	3	31	0	0	0	0	
2	40	30	25	20	3	32	0	5	5	5	3+
3	20	10	5	0	3	33	0	0	0	0	
4	20	20	5	0	3	34	10	5	0	0	3+
5	0	0	0	0		35	0	0	0	0	
6	0	0	0	0	A	36	0	0	0	0	
7	0	0	0	0		37	0	0	0	0	
8	0	0	0	0		38	0	0	0	0	
9	0	0	0	0		39	0	0	0	0	
10	0	0	0	0		40	0	0	10	15	3+
11	0	0	0	0		41	20	25	25	20	3+
12	0	0	0	0		42	10	10	10	10	3+
13	0	0	0	0		43	5	5	0	0	3+ A
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	10	3+	51	0	0	0	0	
22	5	10	5	15	3+	52	0	0	0	0	
23	15	15	10	10	3+	53	0	0	0	0	
24	5	10	5	5	3+	54	0	0	0	0	
25	5	5	0	5	3+	55	0	0	0	0	
26	5	10	5	5	3+ 2	56	0	0	0	0	
27	5	5	5	5	3+	57	0	0	0	0	
28	5	5	5	5	3+	58	0	0	0	0	
29	5	0	0	0	A+	59	0	0	0	0	

Observer's Signature

Last Certification Date 10/07/09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/21/07
OBSERVER: R. BINGHAM
START: 7:30 am pm
FINISH: 11:31 am pm
Source:
BOF ROOF MONITORS
Observation Point
DIRT AREA S/W OF BLAST
FURNACE SLAG PIT
distance from: 1200'
direction from: SG
source height:
200'-250'
wind direction WSW
wind speed 0-5 MPH
sky condition OVERCAST
amb. temp. (F) 30°-35°
color of emissions
WHITE UNLESS NOTED
other:
CALLED AND CONFIRMED
AT 11:30
Remarks:
1 STEAM STARTED
2 STEAM ENDED
3 BROWN IN COLOR
4 WHITE EMISSIONS / LOOKS LIKE LIME CONVEYOR
+ NORTH END OF BOF
Observer's Signature

11:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0	△	30	0	0	0	0	
1	0	0	0	0		31					
2	0	0	0	0		32					
3	0	0	0	0		33					
4	0	0	0	0		34					
5	0	0	0	0		35					
6	0	0	0	0		36					
7	0	0	0	0		37					
8	0	0	0	0		38					
9	0	0	0	5	△ +	39					
10	5	10	10	10	△ +	40					
11	10	10	5	5	△ +	41					
12	0	0	0	0		42					
13	0	0	0	0		43					
14	0	0	0	0		44					
15	0	0	0	0		45					
16	0	0	0	0		46					
17	0	0	0	0		47					
18	0	0	0	0		48					
19	0	0	0	0		49					
20	0	0	0	0		50					
21	0	0	0	0		51					
22	0	0	0	0		52					
23	0	0	0	0		53					
24	0	0	0	0		54					
25	0	0	0	0		55					
26	0	0	0	0		56					
27	0	0	0	0		57					
28	0	0	0	0		58					
29	0	0	0	0		59					

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/15/09
OBSERVER: R. BINGHAM
START: 9:20 am pm
FINISH: 11:20 am pm
Source:
BOF ROOF MONITORS
Observation Point
GRAVEL AREA SOUTH OF COKE OVENS
distance from: 1800'
direction from: SSW
source height:
200'-250'
wind direction WNW
wind speed 5-10 MPH
sky condition overcast
amb. temp. (F) 35°-40°
color of emissions
LINK UNLESS NOTED
other:
CALLED AND CONFIRMED at 11:20 Head No. 55124 15976
Remarks:
<input checked="" type="checkbox"/> STEAM STARTED
<input checked="" type="checkbox"/> STEAM ENDED
<input checked="" type="checkbox"/> RUSTY COLOR
Observer's Signature

9:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	0	0	0	0	
1						31	0	0	0	0	
2						32	0	0	0	0	
3						33	0	0	0	0	
4						34	0	0	0	0	
5						35	0	0	0	0	
6						36	0	0	0	0	
7						37	0	0	0	0	
8						38	0	0	0	0	
9						39	0	0	0	0	
10						40	0	0	0	0	
11						41	0	0	0	0	
12						42	0	0	0	0	
13						43	0	0	0	0	
14						44	0	0	0	0	
15						45	0	0	0	0	
16						46	0	0	0	0	
17						47	0	0	0	0	
18						48	0	0	0	30	<input checked="" type="checkbox"/>
19						49	10	0	0	0	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Observer's Signature

R.B.J.

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/15/09
OBSERVER: R. BINGHAM
START: 9:20 am pm
FINISH: 11:20 am pm
Source:
BOF ROOF MONITORS
Observation Point
GRAVEL AREA SOUTH OF COKE OVENS
distance from: 1700'
direction from: SSW
source height:
200' - 250'
wind direction NW
wind speed 0-5 mph
sky condition OVERCAST
amb. temp. (F) 35° - 40°
color of emissions
WHITE UNLESS NOTED
other:
COLLID AND CONFIRMED AT 11:20
Remarks:
(1) STEAM STARTED
(2) STEAM ENDED
(3) RUSTY COLOR
Observer's Signature

10:00							10:00						
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS		
0	0	0	0	0		30	0	0	0	0			
1	0	0	0	0		31	0	0	0	0			
2	0	0	0	0		32	0	0	0	0			
3	0	0	0	0		33	0	0	0	0			
4	0	0	0	0		34	0	0	0	0	▲		
5	0	0	0	0		35	0	0	0	0			
6	0	0	0	0		36	0	0	0	0			
7	0	0	0	0	▲	37	0	0	0	0			
8	0	0	0	0		38	0	0	0	0			
9	0	0	0	0		39	0	0	0	0			
10	0	0	0	0		40	0	0	0	0			
11	0	0	0	0		41	0	0	0	0			
12	0	0	0	0		42	0	0	0	0			
13	0	0	0	0		43	0	0	0	0			
14	0	0	0	0		44	0	0	0	0			
15	0	0	0	0		45	0	0	0	0			
16	0	0	0	0		46	0	0	0	0			
17	0	0	0	0		47	0	0	0	0			
18	0	0	0	0		48	0	0	0	0			
19	0	0	0	0		49	0	0	0	0			
20	0	0	0	0		50	0	0	0	0			
21	0	0	0	0		51	0	0	0	0			
22	0	0	0	0		52	0	0	0	0	▲		
23	0	0	0	0		53	0	0	0	0			
24	0	0	0	0		54	0	0	0	0			
25	0	0	0	0		55	0	0	0	0			
26	0	0	0	0		56	0	0	0	0			
27	0	0	0	0		57	0	0	0	0			
28	0	0	0	0		58	0	0	0	0			
29	0	0	0	0		59	0	0	0	0			

Last Certification Date 10/07/09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/15/09
OBSERVER: R.BINGHAM
START: 9:20 am pm
FINISH: 11:20 am pm
Source:
BOP ROOF MONITORS
Observation Point
GRAVEL AREA SOUTH OF COKE OVENS
distance from: 1500'
direction from: SSW
source height:
200' - 250'
wind direction NW
wind speed 0 - 5 MPH
sky condition OVERCAST
amb. temp. (F) 30°-35°
color of emissions
WHITE UNLESS NOTED
other;
COLLED AND CONFIRMED AT
11:20
Remarks;
<input checked="" type="checkbox"/> 1 STEAM SPOTTED
<input checked="" type="checkbox"/> 2 STEAM ENOUGH
<input checked="" type="checkbox"/> 3 RUSTY COLOR
Observer's Signature

11:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30					
1	0	0	0	0		31					
2	0	0	0	0		32					
3	0	0	0	0		33					
4	0	0	0	0		34					
5	0	0	0	0		35					
6	0	0	0	0		36					
7	0	0	0	0		37					
8	0	0	0	0		38					
9	0	0	0	0		39					
10	0	0	0	0		40					
11	0	0	0	0		41					
12	0	0	0	0		42					
13	0	0	0	0		43					
14	0	0	0	0		44					
15	0	0	0	0		45					
16	0	0	0	0		46					
17	0	0	0	0		47					
18	0	0	0	0		48					
19	0	0	0	0		49					
20						50					
21						51					
22						52					
23						53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					

Last Certification Date 10/07/08

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/08/08
OBSERVER: P. BINGHAM
START: 8:35 am pm
FINISH: 11:35 am pm
Source:
BOF ROOF MONITORS
Observation Point
GRAVEL AREA, SOUTH OF COKE OVENS
distance from: 1500'
direction from: S6°
source height:
200' - 250'
wind direction N/A
wind speed CALM
sky condition OVERCAST
amb. temp. (F) 25° - 30°
color of emissions
WHITE UNLESS NOTED
other:
CALLED AND CONFIRMED
AT 11:33
Remarks:
(1) STEAM STARTED
(2) STEAM ENDED
Heat Nos. 55034
55035
Observer's Signature
<i>P. B. J.</i>

8:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30					
1						31					
2						32					
3						33					
4						34					
5						35	○	○	○	○	
6						36	○	○	○	○	
7						37	○	○	○	○	
8						38	○	○	○	○	
9						39	○	○	○	○	
10						40	○	○	○	○	
11						41	○	○	○	○	
12						42	○	○	○	○	
13						43	○	○	○	○	
14						44	○	○	○	○	
15						45	○	○	○	○	
16						46	○	○	○	○	
17						47	○	○	○	○	
18						48	○	○	○	○	
19						49	○	○	○	○	
20						50	○	○	○	○	
21						51	○	○	○	○	
22						52	○	○	○	○	
23						53	○	○	○	○	
24						54	○	○	○	○	△
25						55	○	○	○	○	
26						56	○	○	○	○	
27						57	○	○	○	○	
28						58	○	○	○	○	
29						59	○	○	○	○	

Last Certification Date 10/07/08

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/08/05
OBSERVER: R. BINGHAM
START: 9:35 am pm
FINISH: 11:35 am pm
Source:
BOF ROOF MONITORS
Observation Point
GRAVEL AREA SOUTH OF COKE OVENS
distance from: 1800'
direction from: SE
source height:
200'-250'
wind direction N/A
wind speed CALM
sky condition OVERCAST
amb. temp. (F) 25°-30°
color of emissions
WHITE UNLESS NOTED
other:
CALLED AND CONFIRMED
AT 11:33
Remarks:
<input checked="" type="checkbox"/> STEAM STARTED
<input checked="" type="checkbox"/> STEAM ENDED
Observer's Signature

10:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	0	0	0	0	
1	0	0	0	0		31	0	0	0	0	
2	0	0	0	0		32	0	0	0	0	
3	0	0	0	0		33	0	0	0	0	
4	0	0	0	0		34	0	0	0	0	
5	0	0	0	0		35	0	0	0	0	
6	0	0	0	0		36	0	0	0	0	
7	0	0	0	0		37	0	0	0	0	
8	0	0	0	0		38	0	0	0	0	
9	0	0	0	0		39	0	0	0	0	
10	0	0	0	0		40	0	0	0	0	
11	0	0	0	0		41	0	0	0	0	
12	0	0	0	0	▲2	42	0	0	0	0	
13	0	0	0	0		43	0	0	0	0	▲1
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Last Certification Date 10/07/05

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/08/09
OBSERVER: R. BINGHAM
START: 9:35 am pm
FINISH: 11:35 am pm
Source: BOF ROOF MONITORS
Observation Point: GROVEL AREA SOUTH OF COKE OVENS
distance from: 1900'
direction from: SE
source height: 200' - 250'
wind direction ESE
wind speed 0-5 MPH
sky condition OVERCAST
amb. temp. (F) 30°-35°
color of emissions: WHITE UNLESS NOTED
other: CALLED AND CONFIRMED
AT 11:33
Remarks:
<input checked="" type="checkbox"/> 1 STEAM STARTED
<input checked="" type="checkbox"/> 2 STEAM ENDED
Observer's Signature: R. Bingham

11:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	0	0	0	0	
1	0	0	0	0	<input checked="" type="checkbox"/> 1	31	0	0	0	0	
2	0	0	0	0		32	0	0	0	0	
3	0	0	0	0		33	0	0	0	0	
4	0	0	0	0		34	0	0	0	0	
5	0	0	0	0		35					
6	0	0	0	0		36					
7	0	0	0	0		37					
8	0	0	0	0		38					
9	0	0	0	0		39					
10	0	0	0	0		40					
11	0	0	0	0		41					
12	0	0	0	0		42					
13	0	0	0	0		43					
14	0	0	0	0		44					
15	0	0	0	0		45					
16	0	0	0	0		46					
17	0	0	0	0		47					
18	0	0	0	0		48					
19	0	0	0	0		49					
20	0	0	0	0		50					
21	0	0	0	0		51					
22	0	0	0	0		52					
23	0	0	0	0		53					
24	0	0	0	0		54					
25	0	0	0	0		55					
26	0	0	0	0		56					
27	0	0	0	0		57					
28	0	0	0	0		58					
29	0	0	0	0		59					

Last Certification Date 10/07/09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 11/30/07
OBSERVER: R. BINGHAM
START: 8:30 am pm
FINISH: 10:30 am pm
Source: BOF ROOF MONITORS
Observation Point: R/R HOIST, BLDG.
distance from: 2400'
direction from: SE
source height: 200' - 250'
wind direction NW
wind speed 5-10 MPH
sky condition BROKEN
amb. temp. (F) 30°-35°
color of emissions WHITE
UNLESS NOTED
other:
Remarks:
1 STEAM STORMED
2 STEAM ENDED
Hart 54946 (partial)
15790
15791 (partial)

8:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	0	0	0	0	
1						31	0	0	0	0	
2						32	0	0	0	0	
3						33	0	0	0	0	
4						34	0	0	0	0	
5						35	0	0	0	0	
6						36	0	0	0	0	
7						37	0	0	0	0	
8						38	0	0	0	0	
9						39	0	0	0	0	
10						40	0	0	0	0	
11						41	0	0	0	0	
12						42	0	0	0	0	▲
13						43	0	0	0	0	
14						44	0	0	0	0	
15						45	0	0	0	0	
16						46	0	0	0	0	
17						47	0	0	0	0	
18						48	0	0	0	0	
19						49	0	0	0	0	
20						50	0	0	0	0	
21						51	0	0	0	0	
22						52	0	0	0	0	
23						53	0	0	0	0	
24						54	0	0	0	0	
25						55	0	0	0	0	
26						56	0	0	0	0	
27						57	0	0	0	0	
28						58	0	0	0	0	
29						59	0	0	0	0	

Observer's Signature

Last Certification Date 10/02/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: <u>11/30/08</u>
OBSERVER: <u>R. Binkley</u>
START: <u>8:30 am</u> pm
FINISH: <u>10:30 am</u> pm
Source: <u>BOF ROOF MONITORS</u>
Observation Point <u>R/R MAINS, BLDG.</u>
distance from: <u>2400'</u>
direction from: <u>SE</u>
source height: <u>200'-250'</u>
wind direction <u>NW</u>
wind speed <u>5-10 MPH</u>
sky condition <u>BROKEN</u>
amb. temp. (F) <u>30°-35°</u>
color of emissions <u>UNITE</u>
<u>UNLESS NOTED</u>
other: <u>* MOVED TO AREA SOUTH OF COKE OVENS</u>
Remarks:
<u>1) STEAM STARTED</u>
<u>2) STEAM ENDED</u>
<u>3) RUSTY COLOR</u>

Observer's Signature

9:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0	<u>2</u>	30	0	0	50	40	<u>3</u>
1	0	0	0	0		31	10	5	0	0	<u>3</u>
2	0	0	0	0		32	0	0	0	0	
3	0	0	0	0		33	0	0	0	0	
4	0	0	0	0		34	0	0	0	0	
5	0	0	0	0		35	0	0	0	0	
6	0	0	0	0		36	0	0	0	0	
7	0	0	0	0		37	0	0	0	0	
8	0	0	0	0		38	0	0	0	0	
9	0	0	0	0		39	0	0	0	0	
10	0	0	0	0	*	40	0	0	0	0	
11	0	0	0	0		41	0	0	0	0	
12	0	0	0	0		42	0	0	0	0	<u>2</u>
13	0	0	0	0		43	0	0	0	0	
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0	<u>A</u>	54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Last Certification Date 10/07/08

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE:	11/30/07
OBSERVER:	R. Binchot
START:	8:30 am pm
FINISH:	10:30 am pm
Source:	BOF ROOF MONITORS
Observation Point	GRAVEL AREA SOUTH OF COKE OVENS
distance from:	1800'
direction from:	SE
source height:	200'-250'
wind direction	NW
wind speed	5-10 MPH
sky condition	SCATTERED
amb. temp. (F)	30° - 35°
color of emissions	WHITE
UNLESS NOTED	
other:	CALLED AND CONFIRMED AT 10:30
Remarks:	<input checked="" type="checkbox"/> STEAM STATIONED <input checked="" type="checkbox"/> STEAM ENDED
Observer's Signature	R. Binchot

10:00

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	○	○	○	○		30	○	○	○	○	
1	○	○	○	○		31					
2	○	○	○	○		32					
3	○	○	○	○		33					
4	○	○	○	○		34					
5	○	○	○	○		35					
6	○	○	○	○		36					
7	○	○	○	○		37					
8	○	○	○	○	▲	38					
9	○	○	○	○		39					
10	○	○	○	○		40					
11	○	○	○	○		41					
12	○	○	○	○		42					
13	○	○	○	○		43					
14	○	○	○	○		44					
15	○	○	○	○		45					
16	○	○	○	○		46					
17	○	○	○	○		47					
18	○	○	○	○		48					
19	○	○	○	○		49					
20	○	○	○	○		50					
21	○	○	○	○		51					
22	○	○	○	○		52					
23	○	○	○	○		53					
24	○	○	○	○		54					
25	○	○	○	○	▲	55					
26	○	○	○	○		56					
27	○	○	○	○		57					
28	○	○	○	○		58					
29	○	○	○	○		59					

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: <u>11/27/07</u>	
OBSERVER: <u>R. BINGHAM</u>	
START: <u>8:13 am</u>	pm
FINISH: <u>10:30 am</u>	pm
Source:	<u>Bof Roof Monkols</u>
Observation Point	<u>Near Gate 1</u>
	<u>R/R MAINS, PLDG</u>
distance from:	<u>2400'</u>
direction from:	<u>SE</u>
source height:	<u>200'-250'</u>
wind direction	<u>W</u>
wind speed	<u>10-15 MPH</u>
sky condition	<u>SCATTERED</u>
amb. temp. (F)	<u>30°-35°</u>
color of emissions	<u>WHITE</u>
UNLESS NOTED	
other;	
<u>Hent Nos. 15737</u>	
<u>54892</u>	
Remarks;	
<u>1 STEAM STARTED</u>	
<u>2 STEAM ENDED</u>	
Observer's Signature	
<u>R. BINGHAM</u>	

8:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	0	0	0	0	
1						31	0	0	0	0	
2						32	0	0	0	0	
3						33	0	0	0	0	
4						34	0	0	0	0	
5						35	0	0	0	0	
6						36	0	0	0	0	
7						37	0	0	0	0	
8						38	0	0	0	0	
9						39	0	0	0	0	
10						40	0	0	0	0	
11						41	0	0	0	0	<u>A</u>
12						42	0	0	0	0	
13	0	0	0	0		43	0	0	0	0	
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0	<u>A</u>	54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE:	11/27/05
OBSERVER:	R. BINCHEM
START:	8:13 (am) pm
FINISH:	10:30 (am) pm
Source:	BOF ROOF MONITORS
Observation Point	
NEAR BOFG 1	
R/R POINT BLDG	
distance from:	2400'
direction from:	56°
source height:	200' - 250'
wind direction	W
wind speed	10-15 MPH
sky condition	OVERCAST
amb. temp. (F)	35° - 40°
color of emissions	WHITE
UNLESS NOTED	
other;	
Remarks;	
1 STEAM SPURRED	
2 SMOKE ENDED	
3 RUSTY COLORED	

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	0	6	0	0	
1	0	0	0	0		31	0	0	0	0	
2	0	0	0	0		32	0	0	0	6	▲
3	0	0	0	0		33	0	0	0	0	
4	0	0	0	0		34	0	0	0	0	
5	0	0	0	0		35	0	0	0	0	
6	0	0	0	0		36	0	0	0	0	
7	0	0	0	0		37	0	0	0	0	
8	0	0	0	0		38	0	0	0	0	
9	0	0	0	0		39	0	0	0	0	
10	0	0	0	0		40	0	0	0	0	
11	0	0	0	0		41	0	0	0	5	▲
12	0	0	0	0		42	0	0	0	0	
13	0	0	0	0		43	0	0	0	0	
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	▲
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Last Certification Date 10/07/08

Authorized by: EMR  
Revision Date: 10/18/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 11/27/07
OBSERVER: R. Binnam
START: 8:13 am pm
FINISH: 10:30 am pm
Source:
BOF Roof Monitors
Observation Point
NEAR BOFG 1
R/R MAIN. BLDG.
distance from: 2400'
direction from: S6°
source height:
200' - 250'
wind direction W
wind speed 0-5 MPH
sky condition OVERCAST
amb. temp. (F) 35°-40°
color of emissions WHITE
UNLESS NOTED
other:
CALLED AND UNCONFIRMED
AT 10:22
Remarks:
<input checked="" type="checkbox"/> STEAM STARTED
<input checked="" type="checkbox"/> STEAM ENDED
Observer's Signature

10:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30					
1	0	0	0	0		31					
2	0	0	0	0		32					
3	0	0	0	0		33					
4	0	0	0	0		34					
5	0	0	0	0		35					
6	0	0	0	0		36					
7	0	0	0	0		37					
8	0	0	0	0		38					
9	0	0	0	0		39					
10	0	0	0	0		40					
11	0	0	0	0		41					
12	0	0	0	0		42					
13	0	0	0	0		43					
14	0	0	0	0		44					
15	0	0	0	0		45					
16	0	0	0	0		46					
17	0	0	0	0		47					
18	0	0	0	0		48					
19	0	0	0	0		49					
20	0	0	0	0		50					
21	0	0	0	0		51					
22	0	0	0	0		52					
23	0	0	0	0		53					
24	0	0	0	0		54					
25	0	0	0	0		55					
26	0	0	0	0		56					
27	0	0	0	0		57					
28	0	0	0	0		58					
29	0	0	0	0		59					

Observer's Signature

R. Binnam

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 11/17/08
OBSERVER: R. BINGHAM
START: 8:19 am pm
FINISH: 11:21 am pm
Source:
BOF ROOF MONITORS
Observation Point
NEAR BASE I
R/R MAINS, BLDG.
distance from: 2400'
direction from: SE
source height:
200'-250'
wind direction ENG
wind speed 10-15 MPH
sky condition CLEAR
amb. temp. (F) 40°-45°
color of emissions WHITE
UNUSUAL NOTES
other:
Remarks:
△ STEAM STARTED
△ STEAM ENDED
* MOVED TO AREA
SOUTH OF COKE OVENS
Observer's Signature

9:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	0	0	0	0	△ 2
1						31	0	0	6	6	
2						32	0	0	0	0	
3						33	0	0	0	0	
4						34	0	0	0	0	
5						35	0	0	0	0	
6						36	0	0	0	0	
7						37	0	0	0	0	*
8						38	0	0	0	0	
9						39	0	0	0	0	
10						40	0	0	0	0	
11						41	0	0	0	0	
12						42	0	0	0	0	
13						43	0	0	0	0	
14						44	0	0	0	0	
15						45	0	0	0	0	
16						46	0	0	0	0	
17						47	0	0	0	0	
18						48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Observer's Signature

R. Bingham

Last Certification Date 10/07/08

Heat Nos. 15692  
54855

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 11/17/07
OBSERVER: R. BROWN
START: 9:19 am pm
FINISH: 11:21 am pm
Source: BOF ROOF MONITORS
Observation Point: GRAVEL AREA SOUTH OF COKE OVENS
distance from: 2000'
direction from: SSW
source height: 200' - 250'
wind direction: ENE
wind speed: 10-15 MPH
sky condition: CLEAR
amb. temp. (F) 40° - 45°
color of emissions: WHITE UNLESS NOTED
other: ALL EMISSIONS COME FROM CENTRAL PART OF BOF
Remarks:
(1) STEAM STALLED
(2) STEAM CLOUDY
(3) BROWNISH IN COLOR
Observer's Signature: R. BROWN

10:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	0	0	0	0	
1	0	0	0	0		31	0	0	0	0	
2	0	0	0	0		32	0	0	0	0	
3	0	0	0	0		33	0	0	0	0	
4	0	0	0	0		34	0	0	0	0	
5	0	0	0	0		35	0	0	0	0	
6	0	0	0	0		36	0	0	0	0	
7	20	10	0	0	▲	37	0	0	0	0	
8	0	0	0	0		38	0	0	0	0	
9	0	0	0	0	▲	39	0	40	35	25	▲
10	0	0	0	0		40	15	20	15	0	▲
11	0	0	0	0		41	0	0	0	0	
12	0	0	0	0		42	0	0	0	0	▲
13	0	0	0	0		43	0	0	0	0	
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	20	▲
16	0	0	0	0		46	15	5	10	0	▲
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0	▲	55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	▲

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 11/17/08
OBSERVER: R. Bingham
START: 8:18 am pm
FINISH: 11:21 am pm
Source:
BOF Roof Monitors
Observation Point
GRAVEL AREA SOUTH OF COKE OVENS
distance from: 2000'
direction from: SE
source height:
200' - 250'
wind direction ENE
wind speed 15-20 MPH
sky condition SCATTERED
amb. temp. (F) 40°-45°
color of emissions WHITE
UNLESS NOTED
other:
Remarks;
(1) STEAM STARTED
(2) STEAM ENDED
(3) BROWNISH IN COLOR
Observer's Signature

11:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30					
1	0	0	0	0		31					
2	0	0	0	0		32					
3	0	0	0	0		33					
4	0	0	0	0		34					
5	0	0	0	0		35					
6	0	0	0	0		36					
7	0	0	0	0		37					
8	0	0	0	0		38					
9	0	0	0	0		39					
10	0	0	0	5	(1)	40					
11	10	5	5	5	(2)	41					
12	0	0	0	0		42					
13	0	0	0	0		43					
14	0	0	0	0		44					
15	0	0	0	0		45					
16	0	0	0	0		46					
17	0	0	0	0		47					
18	0	0	0	0		48					
19	0	0	0	0		49					
20	0	0	0	0	(1)	50					
21	0	0	0	0		51					
22						52					
23						53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					

Last Certification Date 10/07/08

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE:	11/07/07
OBSERVER:	R. BINGHAM
START:	5:12 (am) pm
FINISH:	11:12 (am) pm
Source:	BOF Roof Monitors
Observation Point	Near Gate 1 R/R Maint. BLDG.
distance from:	2400'
direction from:	SE
source height:	200' - 250'
wind direction	SSW
wind speed	10-15 MPH
sky condition	OVERCAST
amb. temp. (F)	50°-55°
color of emissions	BROWN
UNLESS NOTED	
other;	STOPPED READING DURING TAPPING PROCESS
Remarks;	Heat No. 54746 15566
Observer's Signature	

9:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	0	0	0	0	
1						31	0	0	0	0	
2						32	0	0	0	0	
3						33	0	0	0	0	
4						34	0	0	0	0	
5						35	0	0	0	0	
6						36	0	0	0	0	
7						37	0	0	0	0	
8						38	0	0	0	0	
9						39	0	0	0	0	
10						40	0	0	0	0	
11						41	0	0	0	0	
12	0	0	0	0		42	0	0	0	0	
13	0	0	0	0		43	0	0	0	0	
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 11/08/08
OBSERVER: R. BINGHAM
START: 9:12 am pm
FINISH: 11:12 am pm
Source:
BOF ROOF MONITORS
Observation Point
NEAR GATE 1
R/R MAINT. BLDG.
distance from: 2400'
direction from: SE
source height:
200' - 250'
wind direction SSW
wind speed 10-15 MPH
sky condition OVERCAST
amb. temp. (F) 50°-55°
color of emissions BROWN
UNLESS NOTED
other:
Remarks;
△ EMISSIONS FROM CENTER OF BOF
Observer's Signature

10:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	0	0	0	0	
1	0	0	0	0		31	0	0	0	0	
2	0	0	0	0		32	0	0	0	0	
3	0	0	0	0		33	0	0	0	0	
4	0	10	20	15	△	34	0	0	0	0	
5	15	10	0	0		35	0	0	0	0	
6	0	5	5	0	△	36	0	0	0	0	
7	0	0	0	0		37	0	0	0	0	
8	0	0	0	0		38	0	0	0	0	
9	0	0	10	10	△	39	0	0	0	0	
10	10	15	5	5		40	0	0	0	0	
11	0	0	0	0		41	0	0	0	0	
12	0	0	0	0		42	0	0	0	0	
13	0	0	0	0		43	0	0	0	0	
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	6		47	0	0	0	0	
18	0	6	0	10	△	48	0	0	0	0	
19	5	0	5	5		49	0	0	0	0	
20	5	10	5	5		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Last Certification Date 10/07/08

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 11/09/03
OBSERVER: R. BINGHAM
START: 9:12 (am) pm
FINISH: 11:12 (am) pm
Source:
BOF ROOF MONITORS
Observation Point
NEAR GATE 1
R/R MAINT. BLDG.
distance from: 2400'
direction from: SE
source height:
200' - 250'
wind direction SSW
wind speed 10-15 MPH
sky condition OVERCAST
amb. temp. (F) 50°-55°
color of emissions BROWN
UNLESS NOTED
other;
* COLLED TO CONFIRM AT 11:12 A.M.
Remarks;
△ EMISSIONS FROM SOUTH END OF BOF / COULDN'T DETERMINE IF CAME FROM GROUND
Observer's Signature

11:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30					
1	0	0	0	0		31					
2	0	0	0	0		32					
3	0	0	0	0		33					
4	0	0	0	0		34					
5	5	5	5	15	A	35					
6	20	10	10	10		36					
7	5	5	5	0		37					
8	5	0	0	0		38					
9	0	0	0	0		39					
10	0	0	0	0		40					
11	0	0	0	0		41					
12	0	0	0	0		42					
13						43					
14						44					
15						45					
16						46					
17						47					
18						48					
19						49					
20						50					
21						51					
22						52					
23						53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE:	11/02/08
OBSERVER:	P. BINGHAM
START:	10:23 am pm
FINISH:	am pm
Source:	BOF ROOF MONITORS R/R MINT. BLDG FB
Observation Point	NEAR GATE 1 R/R MINT. BLDG.
distance from:	600'
direction from:	SE
source height:	200' - 250'
wind direction	SSW
wind speed	5-10 mph
sky condition	OVERCAST
amb. temp. (F)	40°-45°
color of emissions	BROWN
UNLESS NOTED	
other:	
Remarks:	  Heat Nos. 15468 15469 15470 (partial)
Observer's Signature	F. B.

10:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	0	0	0	0	
1						31	0	0	0	0	
2						32	0	0	0	0	
3						33	0	0	0	0	
4						34	0	0	0	0	
5						35	0	0	0	0	
6						36	0	0	0	0	
7						37	0	0	0	0	
8						38	0	0	0	0	
9						39	0	0	0	0	
10						40	0	0	0	0	
11						41	0	0	0	0	
12						42	0	0	0	0	
13						43	0	0	0	0	
14						44	0	0	0	0	
15						45	0	0	0	0	
16						46	0	0	0	0	
17						47	0	0	0	0	
18						48	0	0	0	0	
19						49	0	0	0	0	
20						50	0	0	0	0	
21						51	0	0	0	0	
22						52	0	0	0	0	
23						53	0	0	0	0	
24						54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Last Certification Date 10/07/08

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE:	11/02/09
OBSERVER:	R. BINGHAM
START:	10:25 am
FINISH:	pm
Source:	BOF ROOF MONITORS
Observation Point	NEAR GATE 1 R/R MINT. BLDG.
distance from:	600'
direction from:	SE
source height:	200' - 250'
wind direction	SSW
wind speed	5-10 MPH
sky condition	OVERCAST
amb. temp. (F)	40° - 45°
color of emissions	BROWN
unless noted	
other;	* RUSTY COLORED, FROM NORTH END OF BOF A WHITE COLORED, FROM SOUTH END OF BOF
Remarks;	
Observer's Signature	R. B. J.

11:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	0	0	0	0	
1	0	0	0	0		31	0	0	0	0	
2	0	0	0	0		32	0	0	0	0	
3	0	0	0	0		33	0	0	0	0	
4	0	0	0	0		34	0	0	0	0	
5	0	0	0	0		35	0	0	0	0	
6	40	30	20	10	*	36	0	0	0	0	
7	10	10	10	5		37	0	0	0	0	
8	5	5	5	5		38	0	0	0	0	
9	10	0	0	10		39	0	0	0	0	
10	5	0	6	0		40	0	0	0	0	
11	0	0	0	0		41	0	0	0	0	
12	0	0	0	0		42	0	0	0	0	
13	0	0	0	0		43	0	0	0	0	
14	0	0	0	10	A	44	0	0	0	0	
15	5	5	5	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	6	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	6		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Last Certification Date 10/07/09

- STARTED RAINING AT 11:37 A.M. (LIGHT RAIN)  
STOPPED " " 11:46 A.M.

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 11/02/08
OBSERVER: R. BINGHAM
START: 10:25 am pm
FINISH: 12:45 am (pm)
Source: BOF ROOF MONITORS
Observation Point: NEAR GATE 1 RJR MAINE BLDG distance from: 600' direction from: SSW source height: 200'-250'
wind direction SSW wind speed 5-10 MPH sky condition overcast amb. temp. (F) 40°-45° color of emissions BROWN UNLGS NOTED other: CALLED AND CONFIRMED AT 12:45 P.M.
Remarks: *CENTER OF BOF
Observer's Signature: R. Bingham

12:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	0	0	0	0	
1	0	0	0	0		31	0	0	0	0	
2	0	0	0	0		32	0	0	0	0	
3	0	0	0	0		33	0	0	0	0	
4	0	0	0	0		34	0	0	0	0	
5	0	0	0	0		35	0	0	0	0	
6	0	0	0	0		36	0	0	0	0	
7	0	0	0	0		37	0	0	0	0	
8	0	0	0	0		38	0	0	0	0	
9	0	0	0	0		39	0	0	0	0	
10	0	0	0	0		40	0	0	0	0	
11	0	0	0	0		41	0	0	0	0	
12	0	0	0	0		42	0	0	0	0	
13	0	0	0	0		43	50	25	15	5	*ESP
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0			
16	0	0	0	0		46					
17	0	0	0	0		47					
18	0	0	0	0		48					
19	0	0	0	0		49					
20	0	0	0	0		50					
21	0	0	0	0		51					
22	0	0	0	0		52					
23	0	0	0	0		53					
24	0	0	0	0		54					
25	0	0	0	0		55					
26	0	0	0	0		56					
27	0	0	0	0		57					
28	0	0	0	0		58					
29	0	0	0	0		59					

Last Certification Date 10/07/08

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 10/28/07
OBSERVER: R. BINGHAM
START: 10:44 am pm
FINISH: 12:45 am pm
Source: BOF Roof Monitors
Observation Point NEAR GATE 1 R/R MAINS BLDG.
distance from: 600'
direction from: SE
source height: 200' - 250'
wind direction N
wind speed 5-10 MPH
sky condition OVERCAST
amb. temp. (F) 50°-55°
color of emissions BROWN
UNLESS NOTED
other:
Remarks:
Hatch #S 15403
15404
Observer's Signature

10:45							10:45						
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS		
0						30							
1						31							
2						32							
3						33							
4						34							
5						35							
6						36							
7						37							
8						38							
9						39							
10						40							
11						41							
12						42							
13						43							
14						44	0	0	0	0			
15						45	0	0	0	0			
16						46	0	0	0	0			
17						47	0	0	0	0			
18						48	0	0	0	0			
19						49	0	0	0	0			
20						50	0	0	0	0			
21						51	0	0	0	0			
22						52	0	0	0	0			
23						53	0	0	0	0			
24						54	0	0	0	0			
25						55	0	0	0	0			
26						56	0	0	0	0			
27						57	0	0	0	0			
28						58	0	0	0	0			
29						59	0	0	0	0			

R. B. Bingham

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 10/28/09
OBSERVER: R. BINGHAM
START: 10:44 am pm
FINISH: 12:55 am pm
Source:
BOF Roof
MONITORS
Observation Point
NEAR GATE 1
R/R MAINS BLDG.
distance from: 600'
direction from: SE
source height:
200'-250'
wind direction N
wind speed 5-10 MPH
sky condition overcast
amb. temp. (F) 50°-55°
color of emissions Brown
unless noted
other: *
RUSTY COLORED, DISSIPATED DISSIPATED QUICKLY, NO Haze come from ground
Remarks:
SKY CONDITION CHANGED TO BROKEN AT APPROX. 11:15 a.m.

11:00

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	0	0	0	0	
1	0	0	0	0		31	0	0	0	0	
2	0	0	0	0		32	0	0	0	10	*
3	0	0	0	0		33	0	0	0	0	
4	0	0	0	0		34	0	0	0	0	
5	0	0	0	0		35	0	0	0	0	
6	0	0	0	0		36	0	0	0	0	
7	0	0	0	0		37	0	0	0	0	
8	0	0	0	6		38	0	0	0	0	
9	0	0	0	0		39	0	0	0	0	
10	0	0	0	0		40	0	0	0	0	
11	0	0	0	0		41	0	0	0	0	
12	0	0	0	0		42	0	0	0	0	
13	0	0	0	0		43	0	0	0	0	
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	6	0	0	
27	0	0	0	0		57	0	6	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Observer's Signature

*R. B.*

Last Certification Date 10/07/09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 10/20/08
OBSERVER: R. BINGHAM
START: 10:44 am pm
FINISH: 12:45 am (pm)
Source:
BOF ROOF
MONITORS
Observation Point
NEAR GATE 1
R/R HANS. BLDG.
distance from: 600'
direction from: SE
source height:
200'-250'
wind direction N
wind speed 5-10 MPH
sky condition BROKEN
amb. temp. (F) 50°-55°
color of emissions BROWN
UNLESS NOTED
other:
CALLED TO CONFIRM
AT 12:45 P.M.
Remarks:
* CENTER OF BOF, VERY TOP, MAY HAVE COME FROM GROUND
Observer's Signature

12:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	0	0	0	0	
1	0	0	0	0		31	0	0	0	0	
2	0	0	0	0		32	0	0	0	0	
3	0	0	0	0		33	0	0	0	0	
4	0	0	0	0		34	0	0	0	0	
5	0	0	0	0		35	0	0	0	0	
6	0	0	0	0		36	0	0	0	0	
7	0	0	0	0		37	0	0	0	0	
8	0	0	0	0		38	0	0	0	0	
9	0	0	0	0		39	0	0	0	0	
10	0	0	0	0		40	0	0	0	0	
11	0	0	0	0		41	0	0	0	0	
12	0	0	0	0		42	0	0	0	0	
13	0	0	0	0		43	0	0	0	0	
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46					
17	0	0	0	0		47					
18	0	0	0	0		48					
19	0	0	0	0		49					
20	0	0	0	0		50					
21	0	0	0	0		51					
22	0	0	0	0		52					
23	0	0	0	0		53					
24	0	0	0	0		54					
25	0	0	0	0		55					
26	0	6	0	10	*	56					
27	5	0	0	-10	B	57					
28	0	0	0	0		58					
29	0	0	0	0		59					

Last Certification Date 10/07/08

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 10-24-09
OBSERVER: D. Povich
START: 8:17 am pm
FINISH: 11:00 am pm
Source: BOF ROOF MONITORS
Observation Point
VEHICLE Check POINT
distance from: 640-650'
direction from: SE
source height: 250'
wind direction SW
wind speed 15-20
sky condition OVERCAST
amb. temp. (F) 48-52
color of emissions white UNLESS NOTED
other:
S - South
C - CENTER
N - NORTH
Remarks:
Heat #s 54541 15365 (partial 54542)
Observer's Signature

8:00 am											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	0	0	0	0	
1						31	0	0	0	0	
2						32	0	0	0	0	
3						33	0	0	0	0	
4						34	0	0	0	0	
5						35	0	0	0	0	
6						36	0	0	0	0	
7						37	0	0	0	0	
8						38	0	0	0	0	
9						39	0	0	0	0	
10						40	0	0	0	0	
11						41	0	0	0	0	
12						42	0	0	0	0	
13						43	0	0	0	0	
14						44	0	0	0	0	
15						45	0	0	0	0	
16						46	0	0	0	0	
17	0	0	0			47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Last Certification Date 05-06-09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE:	10-24-09
OBSERVER:	D. Pough
START:	8:17 am
FINISH:	11:00 am
Source:	B OF R ROOF MONITOR
Observation Point	VEHICLE check POINT
distance from:	640-650'
direction from:	SE
source height:	250
wind direction	SW
wind speed	15-20
sky condition	OVERCAST
amb. temp. (F)	48-52
color of emissions	WHITE
UNLESS NOTED	
other:	S - South C - CENTER N - NORTH
Remarks:	
Observer's Signature	Donna L Pough

9:00 am											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30					
1	0	0	0	0		31					
2	0	0	0	0		32					
3	0	0	0	0		33					
4	0	0	0	0		34					
5	0	0	0	0		35					
6	0	0	0	0		36					
7	0	0	0	0		37					
8	0	0	0	0		38					
9	0	0	0	0		39		0	0	0	
10	0	0	0	0		40	0	0	0	0	
11	0	0	0	0		41	0	0	0	0	
12	0	0	0	0		42	0	0	0	0	
13	0	0	0	0		43	0	0	0	0	
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0					54	0	0	0	0	
25						55	0	0	0	0	
26						56	0	0	0	0	
27						57	0	0	0	0	
28						58	0	0	0	0	
29						59	0	0	0	0	

Last Certification Date 05-06-09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 10-24-09
OBSERVER: D. Povich
START: 8:17 am pm
FINISH: 11:00 am pm
Source: BOF ROOF MONITOR
Observation Point
VEHICLE CHECK POINT
distance from: 640' 650'
direction from: SE
source height: 250
wind direction SW
wind speed 15-20
sky condition OVERCAST
amb. temp. (F) 48-52
color of emissions WHITE UNLESS NOTED
other:
S - SOUTH
C - CENTER
N - NORTH
Remarks:
10:34 Called home blew two heats 8:25 4930

10:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	0	0	0	0	
1	0	0	0	0		31	0	0	0	0	
2	0	0	0	0		32	0	0	0	0	
3	0	0	0	0		33	0	0	0	0	
4	0	0	0	0		34	5	5	0	0	CC
5	0	0	0	0		35	0	0	0	0	
6	0	0	0	0		36	0	0	0	0	
7	0	0	0	0		37	0	0	0	0	
8	0	0	0	0		38	0	0	0	0	
9	0	0	0	0		39	0	0	0	0	
10	0	0	0	0		40	0	0	0	0	
11	0	0	0	0		41	0	5	0	0	N
12	0	0	0	0		42	0	0	0	0	
13	0	0	0	0		43	0	0	0	0	
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Observer's Signature

Donna L Povich

Last Certification Date 05-06-09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 10/22/09
OBSERVER: R. BINGHAM
START: 10:50 (am) pm
FINISH: 12:52 am (pm)
Source: BOF Roof Monitors
Observation Point: VEHICLE CHECKPOINTS GATE 1
distance from: 600'
direction from: SE
source height: 200' - 250'
wind direction WSW
wind speed 5-10 MPH
sky condition OVERCAST
amb. temp. (F) 50° 33°
color of emissions Brown
UNLESS NOTED
other: S - SOUTH C - CENTRAL N - NORTH
Remarks: Heat Nos. 15326 54504
Observer's Signature: R. B. f

10 AM

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30					
1						31					
2						32					
3						33					
4						34					
5						35					
6						36					
7						37					
8						38					
9						39					
10						40					
11						41					
12						42					
13						43					
14						44					
15						45					
16						46					
17						47					
18						48					
19						49					
20						50	○	○	○	○	
21						51	○	○	○	○	
22						52	○	○	○	○	
23						53	○	○	○	○	
24						54	○	○	○	○	
25						55	○	○	○	○	
26						56	○	○	○	○	
27						57	○	○	○	○	
28						58	○	○	○	○	
29						59	○	○	○	○	

Last Certification Date 10/07/09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 10/22/08
OBSERVER: R. BINGHAM
START: 10:50 am pm
FINISH: 12:52 am pm
Source:
BOF ROOF MONITORS
Observation Point
VEHICLE CHECKPOINT
distance from: 600'
direction from: SE
source height:
200' - 250'
wind direction WSW
wind speed 5-10 MPH
sky condition OVERCAST
amb. temp. (F) 50°-55°
color of emissions BROWN
UNLESS NOTED
other:
S - SOUTH
C - CENTRAL
N - NORTH
Remarks:
Observer's Signature

11 AM											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	0	0	0	0	
1	0	0	0	0		31	0	0	0	0	
2	0	0	0	0		32	0	0	0	0	
3	0	0	0	0		33	0	0	0	0	
4	0	0	0	0		34	0	0	0	0	
5	0	0	0	0		35	0	0	0	0	
6	0	0	0	0		36	0	0	0	0	
7	70	70	80	60	C, RUSTY	37	0	0	0	0	
8	50	40	40	25	C, RUSTY	38	0	0	0	0	
9	20	15	10	10	C, RUSTY	39	0	0	0	0	
10	30	25	25	25	N, RUSTY	40	0	0	0	0	
11	30	25	20	15	N, RUSTY	41	0	0	0	0	
12	15	20	20	20	N, RUSTY	42	0	0	0	0	
13	15	10	10	5	N, RUSTY	43	0	0	0	0	
14	0	5	5	0	N, RUSTY	44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Last Certification Date 10/07/08

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 10/22/07
OBSERVER: R. BINGHAM
START: 10:50 am pm
FINISH: am pm
Source:
POF ROOF MONITORS
Observation Point
VEHICLE CHECKPOINT
distance from: 600'
direction from: SE
source height:
200' - 250'
wind direction WSW
wind speed 5-10 MPH
sky condition OVERCAST
amb. temp. (F) 50° - 55°
color of emissions BROWN
UNLESS NOTED
other:
S - SOUTH
C - CENTRAL
N - NORTH
Remarks:
CALLED AT 12:57 COMPLETED (2) LOADS AND DUMPED SLAG AT END OF EACH LOAD
Observer's Signature

12 PM

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	0	0	0	0	
1	0	0	0	0		31	0	0	0	0	
2	0	0	0	0		32	0	0	0	0	
3	0	0	0	0		33	0	0	0	0	
4	0	0	0	0		34	0	0	0	0	
5	0	0	0	0		35	0	0	0	0	
6	0	0	0	0		36	0	0	0	0	
7	0	0	0	0		37	0	6	0	0	
8	0	0	0	0		38	0	0	0	0	
9	0	0	0	0		39	0	0	0	0	
10	0	0	0	0		40	0	0	0	0	
11	0	0	0	0		41	0	0	0	0	
12	0	0	0	0		42	0	0	0	0	
13	0	0	0	0		43	0	0	0	0	
14	0	0	0	0		44	0	6	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53					
24	0	0	0	0		54					
25	0	0	0	0		55					
26	0	0	0	0		56					
27	0	0	0	0		57					
28	0	0	0	0		58					
29	0	0	0	0		59					

Last Certification Date 10/07/09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE:	10-18-09
OBSERVER:	Tim Sitariski
START:	8:20 am pm
FINISH:	am pm
Source	BDF Roof Monitors
Observation Point	
Visitors Parking Lot	
distance from:	750'
direction from:	E
source height:	200-250'
wind direction SE	
wind speed 3 mph	
sky condition Clear	
amb. temp. (F) 30-35	
color of emissions	
White plume noted	
other:	
Oxygen blow at 8:09	
Remarks:	
Heat # 15274 15275	
Observer's Signature	

8:00 AM

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	○	○	○	○	
1						31	○	○	○	○	
2						32	○	○	○	○	
3						33	○	○	○	○	
4						34	○	○	○	○	
5						35	○	○	○	○	
6						36	○	○	○	○	
7						37	○	○	○	○	
8						38	○	○	○	○	
9						39	○	○	○	○	
10						40	○	○	○	○	
11						41	○	○	○	○	
12						42	○	○	○	○	
13						43	○	○	○	○	
14						44	○	○	○	○	
15						45	○	○	○	○	
16						46	○	○	○	○	
17						47	○	○	○	○	
18						48	○	○	○	○	
19						49	○	○	○	○	
20	○	○	○	○		50	○	○	○	○	
21	○	○	○	○		51	○	○	○	○	
22	○	○	○	○		52	○	○	○	○	
23	○	○	○	○		53	○	○	○	○	
24	○	○	○	○		54	○	○	○	○	
25	○	○	○	○		55	○	○	○	○	
26	○	○	○	○		56	○	○	○	○	
27	○	○	○	○		57	○	○	○	○	
28	○	○	○	○		58	○	○	○	○	
29	○	○	○	○		59	○	○	○	○	

Last Certification Date

10-06-09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 10-18-09
OBSERVER: Tim Starski
START: 8:20 am pm
FINISH: am pm
Source: BOF Roof Hoppers
Observation Point
Visitors Parking Lot
distance from: 750'
direction from: E
source height: 200-250'
wind direction SE
wind speed 3 mph
sky condition Clear
amb. temp. (F) 30-35
color of emissions
White unless noted
other:
Oxygen blow at 829
Remarks:
Light Brown emissions from South roof

9:00 AM											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	○	○	○	○		30	○	○	○	○	
1	○	○	○	○		31	○	○	○	○	
2	○	○	○	○		32	○	○	○	○	
3	○	○	○	○		33	○	○	○	○	
4	○	○	○	○		34	○	○	○	○	
5	○	○	○	○		35	○	○	○	○	
6	○	○	○	○		36	○	○	○	○	
7	○	○	○	○		37	○	○	○	○	
8	○	○	○	○		38	○	○	○	○	
9	○	○	○	○		39	○	○	○	○	
10	○	○	○	○		40	○	○	○	○	
11	○	○	○	○		41	○	○	○	○	
12	○	○	○	○		42	○	○	○	○	
13	○	○	○	○		43	○	○	○	○	
14	○	○	○	○		44	○	○	○	○	
15	○	○	○	○		45	○	○	○	○	
16	○	○	○	○		46	○	○	○	○	
17	○	○	○	○		47	○	○	○	○	
18	○	○	○	○		48	○	○	○	○	
19	○	○	○	○		49	○	○	○	○	
20	○	○	○	○		50	○	○	○	○	
21	○	○	○	○		51	○	○	○	○	
22	○	○	○	○		52	○	○	○	○	
23	○	○	○	○		53	○	○	○	○	
24	○	○	○	○		54	○	○	○	○	
25	○	○	○	○		55	○	○	○	○	
26	○	○	○	○		56	5	10	10	15	A
27	○	○	○	○		57	15	15	10	5	"
28	○	○	○	○		58	5	5	5	5	"
29	○	○	○	○		59	5	0	0	0	"

Observer's Signature

Last Certification Date

10-06-09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 10
OBSERVER: Tim Sitarzki
START: 820 am pm
FINISH: 1020 am pm
Source: BOF Roof Monitors.
Observation Point
Visitors Parking Lot
distance from: 750'
direction from: E
source height: 200-250'
wind direction SE
wind speed 3 mph
sky condition Clear
amb. temp. (F) 30-35
color of emissions
White unless noted
other:
Oxygen Blow at 829
Remarks:
Ready to charge up for another blow at 1004
<i>A</i> Light Brown emissions from South roof
Observer's Signature

10:00 AM

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	○	○	○	○		30					
1	○	○	○	○		31					
2	○	○	○	○		32					
3	○	○	○	○		33					
4	○	○	○	○		34					
5	○	○	○	○		35					
6	○	○	○	○		36					
7	○	○	○	○		37					
8	○	○	○	○		38					
9	○	○	○	○		39					
10	○	○	○	○		40					
11	○	○	○	○		41					
12	○	○	○	5	A	42					
13	S	S	○	○		43					
14	○	○	○	○		44					
15	○	○	○	○		45					
16	○	○	○	○		46					
17	○	○	○	○		47					
18	○	○	○	○		48					
19	○	○	○	○		49					
20	○	○	○	○		50					
21						51					
22						52					
23						53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					

Last Certification Date

10-06-09

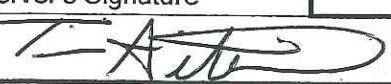
**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 10-5-09
OBSERVER: Tim Starcki
START: 10:08 am pm
FINISH: 10:25 am pm
Source: BDF Roof Monitor
Observation Point <i>Along tracks next to security</i>
distance from: 650'-700'
direction from: SW of BOP
source height: 250'
wind direction W
wind speed 10-15 mph
sky condition Cloudy
amb. temp. (F) 45-55°
color of emissions
<i>White unless noted</i>
other:
Remarks: <i>Heat began at 10:20</i>
<i>Heat Nos. 15195 54390</i>
Observer's Signature <i>T. Starcki</i>

10:00 AM											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	○	○	○	○	
1						31	○	○	○	○	
2						32	○	○	○	○	
3						33	○	○	○	○	
4						34	○	○	○	○	
5						35	○	○	○	○	
6						36	○	○	○	○	
7						37	○	○	○	○	
8						38	○	○	○	○	
9						39	○	○	○	○	
10						40	○	○	○	○	
11						41	○	○	○	○	
12						42	○	○	○	○	
13						43	○	○	○	○	
14						44	○	○	○	○	
15						45	○	○	○	○	
16						46	○	○	○	○	
17						47	○	○	○	○	
18	○	○	○	○		48	○	○	○	○	
19	○	○	○	○		49	○	○	○	○	
20	○	○	○	○		50	○	○	○	○	
21	○	○	○	○		51	○	○	○	○	
22	○	○	○	○		52	○	○	○	○	
23	○	○	○	○		53	○	○	○	○	
24	○	○	○	○		54	○	○	○	○	
25	○	○	○	○		55	○	○	○	○	
26	○	○	○	○		56	○	○	○	○	
27	○	○	○	○		57	○	○	○	○	
28	○	○	○	○		58	○	○	○	○	
29	○	○	○	○		59	○	○	○	○	

Last Certification Date 04-08-09

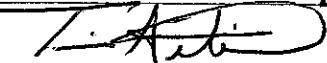
**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE:	10-5-09
OBSERVER:	Tim Sitariski
START:	10:08 am pm
FINISH:	12:25 am pm
Source:	BOF Run Monitor
Observation Point	Along tracks next to security
distance from:	650' - 700'
direction from:	SW of BOF
source height:	250'
wind direction	W
wind speed	10-15 mph
sky condition	Cloudy
amb. temp. (F)	45.55°F
color of emissions	White unless noted
other:	
Remarks:	
Observer's Signature	

11:00 AM											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	○	○	○	○		30	○	○	○	○	
1	○	○	○	○		31	○	○	○	○	
2	○	○	○	○		32	○	○	○	○	
3	○	○	○	○		33	○	○	○	○	
4	○	○	○	○		34	○	○	○	○	
5	○	○	○	○		35	○	○	○	○	
6	○	○	○	○		36	○	○	○	○	
7	○	○	○	○		37	○	○	○	○	
8	○	○	○	○		38	○	○	○	○	
9	○	○	○	○		39	○	○	○	○	
10	○	○	○	○		40	○	○	○	○	
11	○	○	○	○		41	○	○	○	○	
12	○	○	○	○		42	○	○	○	○	
13	○	○	○	○		43	○	○	○	○	
14	○	○	○	○		44	○	○	○	○	
15	○	○	○	○		45	○	○	○	○	
16	○	○	○	○		46	○	○	○	○	
17	○	○	○	○		47	○	○	○	○	
18	○	○	○	○		48	○	○	○	○	
19	○	○	○	○		49	○	○	○	○	
20	○	○	○	○		50	○	○	○	○	
21	○	○	○	○		51	○	○	○	○	
22	○	○	○	○		52	○	○	○	○	
23	○	○	○	○		53	○	○	○	○	
24	○	○	○	○		54	○	○	○	○	
25	○	○	○	○		55	○	○	○	○	
26	○	○	○	○		56	○	○	○	○	
27	○	○	○	○		57	○	○	○	○	
28	○	○	○	○		58	○	○	○	○	
29	○	○	○	○		59	○	○	○	○	

Last Certification Date 04-08-09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 10-5-09
OBSERVER: Tim Sitariski
START: 10:30 am pm
FINISH: 12:25 am (pm)
Source: BOF Roof Monitor
Observation Point Along trusses next to security
distance from: 650-700'
direction from: SW of BOF
source height: 250'
wind direction W
wind speed 10-15 mph
sky condition Cloudy
amb. temp. (F) 45-55°
color of emissions
White unless noted
other:
Remarks:
Another heat ran from 11:15-11:36 a.m. ensuring two heats
Observer's Signature


12:00 PM

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	○	○	○	○		30					
1	○	○	○	○		31					
2	○	○	○	○		32					
3	○	○	○	○		33					
4	○	○	○	○		34					
5	○	○	○	○		35					
6	○	○	○	○		36					
7	○	○	○	○		37					
8	○	○	○	○		38					
9	○	○	○	○		39					
10	○	○	○	○		40					
11	○	○	○	○		41					
12	○	○	○	○		42					
13	○	○	○	○		43					
14	○	○	○	○		44					
15	○	○	○	○		45					
16	○	○	○	○		46					
17	○	○	○	○		47					
18	○	○	○	○		48					
19	○	○	○	○		49					
20	○	○	○	○		50					
21	○	○	○	○		51					
22	○	○	○	○		52					
23	○	○	○	○		53					
24	○	○	○	○		54					
25	○	○	○	○		55					
26						56					
27						57					
28						58					
29						59					

Last Certification Date 04-08-09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/27/08
OBSERVER: R. BINGHAM
START: 11:05 (am) pm
FINISH: am 12:54 (pm)
Source:
BLAST FURNACE C
EAST CAST HOUSE
Observation Point
GRAVEL AREA OFF OF ROAD
"B"
distance from: 300'
direction from: S
source height:
75'-100'
wind direction W
wind speed 0-5 mph
sky condition overcast
amb. temp. (F) 20°-25°
color of emissions
WHITE UNLESS NOTED
other:
DIALED AT 11:15
PLUGGED AT 12:46
Remarks:
1 RUSTY COLOR
2 BLACK SMOKE FROM GROUND (SPILL)
Observer's Signature

11:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	0	0	0	0	
1						31	0	0	0	0	
2						32	0	0	0	0	
3						33	0	0	0	0	
4						34	0	0	0	6	
5	15	10	10	5	A	35	0	0	0	0	
6	0	20	15	15	A	36	0	0	0	0	
7	15	5	5	5	A	37	0	0	0	0	
8	0	0	0	0		38	0	0	0	0	
9	0	0	0	0		39	0	0	0	0	
10	0	0	0	0		40	0	0	0	0	
11	0	0	0	0		41	0	0	0	0	
12	0	0	0	0		42	0	0	0	0	
13	0	0	0	0		43	0	0	0	0	
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	30	20	15	5	A
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	5	5	
22	0	0	0	0		52	5	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	5	5	
27	0	0	0	0		57	5	0	0	5	
28	0	0	0	0		58	5	5	5	5	
29	0	0	0	0		59	5	10	5	5	

Last Certification Date 10/07/08

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/27/03
OBSERVER: R. BINGHAM
START: 11:05 am pm
FINISH: am 12:54 pm
Source:
Blast Furnace C
East East House
Observation Point
Granite area off of road
"B"
distance from: 300'
direction from: S
source height:
75'-100'
wind direction NW
wind speed 5-10 MPH
sky condition BROKEN
amb. temp. (F) 20°-25°
color of emissions
WHITE UNLESS NOTED
other:
DRILLED AT 11:15
PLUGGED AT 12:46
Remarks:
<input checked="" type="checkbox"/> 1 RUSTY COLOR
<input checked="" type="checkbox"/> 2 BLACK SMOKE FROM GROUND (SPILL)
Observer's Signature

12:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	5	10	5	5		30	5	5	0	5	
1	5	5	5	5		31	5	5	10	5	
2	10	10	5	5		32	5	15	5	10	
3	5	10	15	10		33	5	5	10	10	
4	10	15	15	15		34	5	10	5	5	
5	5	10	10	5		35	10	15	10	10	
6	5	5	5	10		36	10	15	15	10	
7	15	10	10	10		37	15	15	15	15	
8	15	15	10	10		38	10	10	10	10	
9	10	10	15	10		39	15	10	10	5	
10	10	15	15	15		40	10	10	15	10	
11	10	10	15	15		41	10	10	10	10	
12	15	20	15	20		42	5	10	10	15	
13	15	20	10	10		43	10	10	15	10	
14	15	15	15	10		44	10	10	5	5	
15	10	5	10	15		45	10	10	10	5	
16	10	10	10	15		46	15	15	10	15	△
17	15	10	10	10		47	5	5	10	5	
18	10	10	5	5		48	10	10	5	5	
19	10	10	10	10		49	5	5	5	5	
20	5	5	5	5		50	5	5	5	5	
21	5	5	10	5		51	5	5	5	5	
22	10	10	10	15		52	5	5	0	0	
23	15	10	15	10		53	0	0	0	0	
24	10	10	10	5		54					
25	5	10	5	5		55					
26	5	5	10	10		56					
27	5	5	5	5		57					
28	5	10	5	5		58					
29	5	5	0	0		59					

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/21/09
OBSERVER: R. BINGHAM
START: 7:14 (am) pm
FINISH: 10:57 (am) pm
Source:
BLAST FURNACE C
CAST CAST HOUSE
Observation Point
DIRT AREA OFF OF ROAD "B"
distance from: 300'
direction from: S
source height:
75'-100'
wind direction N
wind speed 5-10
sky condition overcast
amb. temp. (F) 25°-30°
color of emissions
WHITE UNLESS NOTED
other:
DRILED AT 9:15'
PLUGGED AT 10:52
Remarks:
<input checked="" type="checkbox"/> RUSTY COLOR
Observer's Signature

9:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	0	0	0	0	
1						31	0	0	0	0	
2						32	0	0	0	0	
3						33	0	0	0	0	
4						34	0	0	0	6	
5						35	0	0	0	0	
6						36	0	0	0	0	
7						37	0	0	0	0	
8						38	0	0	0	0	
9						39	0	0	0	0	
10						40	0	0	0	0	
11						41	0	0	0	0	
12						42	0	0	0	0	
13						43	0	0	0	0	
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	20	25	<input checked="" type="checkbox"/>	46	0	0	0	0	
17	20	20	10	5	<input checked="" type="checkbox"/>	47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Observer's Signature

R.B.J.

Last Certification Date 10/07/09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/22/07
OBSERVER: R. BINGHAM
START: 8:14 am pm
FINISH: 10:57 am pm
Source:
BLAST FURNACE C
EAST CAST HOUSE
Observation Point
DIST AREA OFF OF 12000 "B"
distance from: 300'
direction from: S
source height:
75' - 100'
wind direction N NW
wind speed 0-5 MPH
sky condition OVERCAST
amb. temp. (F) 30°-35°
color of emissions
WHITE UNLESS NOTED
other:
DRILLED AT 9:15
PLUGGED AT 10:52
Remarks:
(A) RUSTY COLOR
Observer's Signature

10:00

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	10	10	5	10	(A)
1	0	0	0	0		31	5	10	10	15	(A)
2	0	0	0	0		32	15	15	15	15	(A)
3	0	0	0	0		33	15	10	15	15	(A)
4	0	0	0	0		34	15	15	15	10	(A)
5	0	0	0	0		35	10	10	15	15	(A)
6	0	0	0	0		36	15	10	10	10	(A)
7	0	0	0	0		37	15	15	10	15	(A)
8	0	0	0	5		38	20	20	20	20	(A)
9	5	5	5	5		39	20	15	15	20	(A)
10	5	0	5	5		40	15	15	20	15	(A)
11	0	5	5	0		41	10	15	15	20	(A)
12	0	0	0	0		42	20	15	15	20	(A)
13	0	0	0	0		43	20	15	20	20	(A)
14	0	0	0	0		44	25	20	15	20	(A)
15	0	0	0	0		45	25	15	20	25	(A)
16	0	0	0	0		46	20	20	20	25	(A)
17	0	0	0	0		47	30	25	25	20	(A)
18	0	0	0	0		48	20	20	20	15	(A)
19	5	0	0	0		49	15	10	20	10	(A)
20	5	0	0	0		50	10	10	15	15	(A)
21	0	0	0	0		51	20	15	15	20	(A)
22	5	0	5	10	(A)	52	25	25	20	20	(A)
23	10	5	5	5	(A)	53	15	20	15	10	(A)
24	10	10	15	20	(A)	54	5	5	0	5	(A)
25	20	20	20	10	(A)	55	0	5	0	0	
26	5	5	5	5	(A)	56	5	5	5	5	
27	5	5	5	5	(A)	57	5	5	5	5	
28	5	5	5	5	(A)	58	0	0	0	0	
29	5	5	5	5	(A)	59					

Last Certification Date 10/07/09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/18/08
OBSERVER: R. Bindon
START: am 3:03 pm
FINISH: am 5:12 pm
Source:
BLAST FURNACE C
EAST CAST HOUSE
Observation Point
DIRT AREA OFF OF ROAD
"B"
distance from: 300'
direction from: S
source height:
75' - 100'
wind direction ESE
wind speed 5-10 MPH
sky condition overcast
amb. temp. (F) 35° - 40°
color of emissions
WHITE UNLESS NOTED
other:
DRILLED AT 3:17
PLUGGED AT 5:07
Remarks;
Observer's Signature

3:00

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	0	0	0	0	
1						31	0	0	0	0	
2						32	0	0	0	0	
3	0	0	0	0		33	0	0	0	0	
4	0	0	0	0		34	0	0	0	0	
5	0	0	0	0		35	0	0	0	0	
6	0	0	0	0		36	0	0	0	0	
7	0	0	0	0		37	0	0	0	0	
8	0	0	0	0		38	0	0	0	0	
9	0	0	0	0		39	0	0	0	0	
10	0	0	0	0		40	0	0	0	0	
11	0	0	0	0		41	0	0	0	0	
12	0	0	0	0		42	0	0	0	0	
13	0	0	0	0		43	0	0	0	0	
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

R. Bindon

Last Certification Date 10/07/09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/18/09
OBSERVER: R. BINGHAM
START: am 3:02 pm
FINISH: am 5:12 pm
Source:
BLAST FURNACE C
GAS CAST HOUSE
Observation Point
DIRE AREA OFF OF RUND
"B"
distance from: 300'
direction from: S
source height:
75'-100'
wind direction GSE
wind speed 0-5 MPH
sky condition overcast
amb. temp. (F) 35°-40°
color of emissions
WHITE UNLESS NOTED
other:
DRILLED AT 3:17
PLUGGED AT 5:07
Remarks;
Observer's Signature

4:00						5:00					
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	○	○	○	○		30	○	○	○	○	
1	○	○	○	○		31	○	○	○	○	
2	○	○	○	○		32	○	○	○	○	
3	○	6	○	○		33	○	○	○	○	
4	○	○	○	○		34	○	○	○	○	
5	○	○	○	○		35	○	○	○	○	
6	○	○	○	○		36	○	○	○	○	
7	6	○	○	○		37	○	○	○	○	
8	○	○	○	○		38	○	○	○	○	
9	○	○	○	○		39	○	○	○	○	
10	○	○	○	○		40	○	○	○	○	
11	○	○	○	○		41	○	○	○	○	
12	○	○	○	○		42	○	○	○	○	
13	○	○	○	○		43	○	○	○	○	
14	○	○	○	○		44	○	○	○	○	
15	○	○	○	○		45	○	○	○	○	
16	○	○	○	○		46	○	○	○	○	
17	○	○	○	○		47	○	○	○	○	
18	○	○	○	○		48	○	○	○	○	
19	○	○	○	○		49	○	○	○	○	
20	○	○	○	○		50	○	○	○	○	
21	○	○	○	○		51	○	○	○	○	
22	○	○	○	○		52	○	○	○	○	
23	○	○	○	○		53	○	○	○	○	
24	○	○	○	○		54	○	○	○	○	
25	○	○	○	○		55	○	○	○	○	
26	○	○	○	○		56	○	○	○	○	
27	○	○	○	○		57	○	○	○	○	
28	○	○	○	○		58	○	○	○	○	
29	○	○	○	○		59	○	○	○	○	

Observer's Signature

Last Certification Date 10/07/09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/19/07
OBSERVER: R. BINGHAM
START: am 3:03 pm
FINISH: am 5:12 pm
Source:
BLAST FURNACE C
CASE CAST HOUSE
Observation Point
DIREC ARCD OFF OF ROAD
"B"
distance from: 300'
direction from: SSW 5°
source height:
75'-100'
wind direction 65°
wind speed 0-5 MPH
sky condition OVERCAST
amb. temp. (F) 35°-40°
color of emissions
WHITE UNLESS NOTED
other:
DRILLED at 3:17
PLUGGED at 5:07
Remarks;
Observer's Signature

5:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30					
1	0	0	0	0		31					
2	0	0	0	0		32					
3	0	0	0	0		33					
4	15	0	0	0		34					
5	0	0	0	0		35					
6	10	0	0	10		36					
7	0	0	0	0		37					
8	0	0	0	0		38					
9	0	0	0	0		39					
10	0	0	0	0		40					
11	0	0	0	0		41					
12						42					
13						43					
14						44					
15						45					
16						46					
17						47					
18						48					
19						49					
20						50					
21						51					
22						52					
23						53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					

R. BINGHAM

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/15/08
OBSERVER: R. BINGHAM
START: 12:05 am (pm)
FINISH: 1:33 am (pm)
Source:
BLAST FURNACE C
EAST CAST House
Observation Point
DIREC AREA OFF OF ROAD
"B"
distance from: 300'
direction from: S
source height:
75'-100'
wind direction WNW
wind speed 0-5 MPH
sky condition OVERCAST
amb. temp. (F) 35° - 40°
color of emissions
WHITE UNLESS NOTED
other:
DRILLED AT 12:41
PLUGGED AT 1:25
Remarks;
Observer's Signature

12:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	0	0	0	0	
1						31	0	0	0	0	
2						32	0	0	0	0	
3						33	0	0	0	0	
4						34	0	0	0	0	
5	0	0	0	0		35	0	0	0	0	
6	0	0	0	0		36	0	0	0	0	
7	0	0	0	0		37	0	0	0	0	
8	0	0	0	0		38	0	0	0	0	
9	0	0	0	0		39	0	0	0	0	
10	0	0	0	0		40	0	0	0	0	
11	0	0	0	0		41	0	0	0	0	
12	0	0	0	0		42	0	0	0	0	
13	0	0	5	0		43	0	0	0	0	
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	5	5	0	5		50	0	0	0	0	
21	5	5	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	5	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

R. Bingham

Last Certification Date 10/07/08

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/15/07
OBSERVER: R.BINGHAM
START: 12:05 am (pm)
FINISH: 1:33 am (pm)
Source:
BLAST FURNACE C
CORE CAST HOUSE
Observation Point
DIRE AREA OFF OF 120ND
"B"
distance from: 300'
direction from: S
source height:
75' - 100'
wind direction WSW
wind speed 0-5 MPH
sky condition overcast
amb. temp. (F) 35°-40°
color of emissions
WHITE UNLESS NOTED
other:
DRILLED AT 12:41
PLUGGED AT 1:25
Remarks:
△ BROWN, RUSTY COLOR
Observer's Signature
R.Bing

1:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	0	0	0	0	
1	0	5	0	10		31	0	0	0	0	
2	10	5	10	5		32	0	0	0	0	
3	15	10	10	5		33					
4	10	5	10	10		34					
5	15	15	15	15		35					
6	15	20	20	25		36					
7	25	10	15	25		37					
8	20	15	10	20		38					
9	10	20	20	25		39					
10	30	15	20	25		40					
11	20	20	15	15		41					
12	20	20	25	20		42					
13	20	25	30	30		43					
14	15	25	20	10		44					
15	30	20	20	20		45					
16	20	15	15	10		46					
17	10	20	20	20		47					
18	10	20	30	26		48					
19	20	25	15	15		49					
20	20	25	20	25		50					
21	20	20	15	15		51					
22	20	20	15	20		52					
23	25	25	20	15		53					
24	15	25	40	35	△	54					
25	50	70	70	70	△	55					
26	80	60	40	20	△	56					
27	10	0	0	0	△	57					
28	0	0	0	0		58					
29	0	0	0	0		59					

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/07/09
OBSERVER: R. BINGHAM
START: 12:25 am (pm)
FINISH: 2:58 am (pm)
Source:
BLAST FURNACE C
EAST CAST HOUSE
Observation Point
DIRT AREA OFF OF 12000
"B"
distance from: 250'
direction from: S
source height:
75'-100'
wind direction SW
wind speed 5-10 MPH
- sky condition OVERCAST
amb. temp. (F) 30°-35°
color of emissions
WHITE UNLESS NOTED
other:
DRILLED AT 12:35
PLUGGED AT 2:50
- LIGHT TO MODERATE SNOW
Remarks;
Observer's Signature

12:00

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	○	○	○	○	
1						31	○	○	○	○	
2						32	○	○	○	○	
3						33	○	○	○	○	
4						34	○	○	○	○	
5						35	○	○	○	○	
6						36	○	○	○	○	
7						37	○	○	○	○	
8						38	○	○	○	○	
9						39	○	○	○	○	
10						40	○	○	○	○	
11						41	○	○	○	○	
12						42	○	○	○	○	
13						43	○	○	○	○	
14						44	○	○	○	○	
15						45	○	○	○	○	
16						46	○	○	○	○	
17						47	○	○	○	○	
18						48	○	○	○	○	
19						49	○	○	○	○	
20						50	○	○	○	○	
21						51	○	○	○	○	
22						52	○	○	○	○	
23						53	○	○	○	○	
24						54	○	○	○	○	
25	○	○	○	○		55	○	○	○	○	
26	○	○	○	○		56	○	○	○	○	
27	○	○	○	○		57	○	○	○	○	
28	○	○	○	○		58	○	○	○	○	
29	○	○	○	○		59	○	○	○	○	

Last Certification Date 10/07/09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 10/07/07
OBSERVER: R. BINGHAM
START: 12:25 am (pm)
FINISH: 2:58 am (pm)
Source:
BLAST FURNACE C
CAST CAST HOUSE
Observation Point
DIRT AREA OFF OF ROAD
"B"
distance from: 250'
direction from: S
source height:
75'-100'
wind direction SW
wind speed 5-10 MPH
- sky condition overcast
amb. temp. (F) 30°-35°
color of emissions
WHITE UNLESS NOTED
other:
DRILLED AT 12:35
PLUGGED AT 2:50
LIGHT TO MODERATE SNOW
Remarks;
Observer's Signature

1:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	0	0	0	0	
1	0	0	0	0		31	0	0	0	0	
2	0	0	0	0		32	0	0	0	0	
3	0	0	0	0		33	0	0	0	0	
4	0	0	0	0		34	0	0	0	0	
5	0	0	0	0		35	0	0	0	0	
6	0	0	0	0		36	0	0	0	0	
7	0	0	0	0		37	0	0	0	0	
8	0	0	0	0		38	0	0	0	0	
9	0	0	0	0		39	0	0	0	0	
10	0	0	0	0		40	0	0	0	0	
11	0	0	0	0		41	0	0	0	0	
12	0	0	0	0		42	0	0	0	0	
13	0	0	0	0		43	0	0	0	0	
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

R. Bingham

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 12/07/03
OBSERVER: R. BINGHAM
START: 12:25 am (pm)
FINISH: 2:58 am (pm)
Source:
BLAST FURNACE C
EAST CAST HOUSE
Observation Point
DIRS AREA OFF OF 12000
"B"
distance from: 250'
direction from: S
source height:
75' - 100'
wind direction SW
wind speed 5-10 MPH
sky condition overcast
amb. temp. (F) 30°-35°
color of emissions
WHITE UNLESS NOTED
other:
DRILLED AT 12:35
PLUGGED AT 2:56
LIGHTS TO MEDIUM SNOW
Remarks;
Observer's Signature

2:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	0	0	0	0	
1	0	0	0	0		31	0	0	0	0	
2	0	0	0	0		32	0	0	0	0	
3	0	0	0	0		33	0	0	0	0	
4	0	0	0	0		34	0	0	0	0	
5	0	0	0	0		35	0	0	0	0	
6	0	0	0	0		36	0	0	0	0	
7	0	0	0	0		37	0	0	0	0	
8	0	0	0	0		38	0	0	0	0	
9	0	0	0	0		39	0	0	0	0	
10	0	0	0	0		40	0	0	0	0	
11	0	0	0	0		41	0	0	0	0	
12	0	0	0	0		42	0	0	0	0	
13	0	0	0	0		43	0	0	0	0	
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58					
29	0	0	0	0		59					

Last Certification Date 10/07/03

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE:	11/30/07
OBSERVER:	R. BINGHAM
START:	11:18 am
FINISH:	1:00 pm
Source:	BLAST FURNACE C EAST CAST HOUSE
Observation Point	GROVEL AREA OFF OF ROAD "B"
distance from:	250'
direction from:	S
source height:	75'-100'
wind direction	NNW
wind speed	5-10 MPH
sky condition	SCATTERED
amb. temp. (F)	35°-40°
color of emissions	WHITISH
UNLESS NOTED	
other:	DRILLED AT 11:47 PLUGGED AT 12:57
Remarks:	<input checked="" type="checkbox"/> RUSTY COLOR
Observer's Signature	R.B.

11:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	0	0	0	0	
1						31	0	0	0	0	
2						32	0	0	0	0	
3						33	0	0	0	0	
4						34	0	0	0	0	
5						35	0	0	0	0	
6						36	0	0	0	0	
7						37	0	0	0	0	
8						38	0	0	0	0	
9						39	0	0	0	0	
10						40	0	0	0	0	
11						41	0	0	0	0	
12						42	0	0	0	0	
13						43	0	0	0	0	
14						44	0	0	0	0	
15						45	0	0	0	0	
16						46	0	0	0	0	
17						47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	N	10	0	△
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 11/30/07
OBSERVER: R. BINGHAM
START: 11/18 <u>am</u> pm
FINISH: 1:00 am <u>pm</u>
Source: BLAST FURNACE C CAST CAST HOUSE
Observation Point GRAVEL AREA OFF OF Road "B" distance from: 250' direction from: S source height: 75' - 100'
wind direction NNE wind speed 5-10 MPH sky condition BROKEN amb. temp. (F) 35°-40° color of emissions WHITE UNLESS NOTED other: DRILLED AT 11:47 PLUGGED AT 12:53
Remarks; EMISSIONS ON THIS PAGE ARE GRAY IN COLOR - CAN NOT DETERMINE IF STEAM OR SMOKE ⚠️ RUSTY IN COLOR
Observer's Signature

12:00					REMARKS	12:00					REMARKS
MIN	0	15	30	45		MIN	0	15	30	45	
0	0	0	0	0		30	0	0	0	5	
1	0	0	0	0		31	5	10	5	5	
2	0	0	0	0		32	10	15	10	15	
3	0	0	0	0		33	5	10	0	0	
4	0	0	0	0		34	0	5	10	0	
5	0	0	0	0		35	5	0	5	5	
6	0	0	0	0		36	0	5	0	10	
7	0	0	0	0		37	10	5	5	0	
8	0	0	0	0		38	5	0	5	0	
9	0	0	0	0		39	5	0	5	5	
10	0	0	0	0		40	0	0	5	5	
11	0	0	0	0		41	10	10	5	5	
12	0	0	0	0		42	5	10	0	10	
13	0	0	0	0		43	5	5	5	5	
14	0	0	0	0		44	0	5	0	0	
15	0	0	0	0		45	0	0	0	5	
16	0	0	0	0		46	0	10	0	0	
17	0	0	0	0		47	0	0	0	5	
18	0	0	0	0		48	5	5	0	10	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	5	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	10	5	5	10	
23	0	0	0	0		53	15	5	0	0	⚠️
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 11/27/07
OBSERVER: R. BINGHAM
START: 10:42 am pm
FINISH: 11:00 am (pm)
Source:
BLAST FURNACE C
East East House
Observation Point
DIRECTIONS OFF OF ROAD
"B"
distance from: 250'
direction from: S
source height:
75' - 100'
wind direction W
wind speed 10-15 mph
sky condition overcast
amb. temp. (F) 35°-40°
color of emissions white
UNLESS NOTED
other:
DRILLED AT 10:51
PLUGGED AT 12:53
Remarks:
Observer's Signature

10:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30					
1						31					
2						32					
3						33					
4						34					
5						35					
6						36					
7						37					
8						38					
9						39					
10						40					
11						41					
12						42	0	0	0	0	
13						43	0	0	0	0	
14						44	0	0	0	0	
15						45	0	0	0	0	
16						46	0	0	0	0	
17						47	0	0	0	0	
18						48	0	0	0	0	
19						49	0	0	0	0	
20						50	0	0	0	0	
21						51	0	0	0	0	
22						52	0	0	0	0	
23						53	0	0	0	0	
24						54	0	0	0	0	
25						55	0	0	0	0	
26						56	0	0	0	0	
27						57	0	0	0	0	
28						58	0	0	0	0	
29						59	0	0	0	0	

R. Bingham

Last Certification Date 10/07/03

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 11/27/08
OBSERVER: R. BINSCHY
START: 10:42 am pm
FINISH: 1:00 am pm
Source:
Blast Furnace C
East Cast No. 4
Observation Point
DIREC. AREA OFF OF ROAD "B"
distance from: 250'
direction from: S
source height:
75' - 100'
wind direction W
wind speed 10-15 MPH
sky condition OVERCAST
amb. temp. (F) 35°-40°
color of emissions WHITE
UNLESS NOTED
other:
DRILLED AT 10:51
PLUGGED AT 12:53
Remarks;
Observer's Signature

11:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	0	0	0	0	
1	0	0	0	0		31	0	0	0	0	
2	0	0	0	0		32	0	0	0	0	
3	0	0	0	0		33	0	0	0	0	
4	0	0	0	0		34	0	0	0	0	
5	0	0	0	0		35	0	0	0	0	
6	0	0	0	0		36	0	0	0	0	
7	0	0	0	0		37	0	0	0	0	
8	0	0	0	0		38	0	0	0	0	
9	0	0	0	0		39	0	0	0	0	
10	0	0	0	0		40	0	0	0	0	
11	0	0	0	0		41	0	0	0	0	
12	0	0	0	0		42	0	0	0	0	
13	0	0	0	0		43	0	0	0	0	
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 11/27/07
OBSERVER: R. BINGHAM
START: 10:42 am pm
FINISH: 1:00 am (pm)
Source:
BLAST FURNACE C
EAST CAST NO. 30
Observation Point
DIRE AREA OFF OF ROAD
"B"
distance from: 250'
direction from: S
source height:
75' - 100'
wind direction W
wind speed 10-15 mph
sky condition overcast
amb. temp. (F) 35° - 40°
color of emissions UNK
UNLESS NOTED
other:
DRILLED AT 10:31
PLUGGED AT 12:53
Remarks:
Observer's Signature

12:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	0	0	0	0	
1	0	0	0	0		31	0	0	0	0	
2	0	0	0	0		32	0	0	0	5	
3	0	0	0	0		33	5	5	5	5	
4	0	0	0	0		34	5	5	5	5	
5	0	0	0	0		35	0	5	5	5	
6	0	0	0	0		36	5	0	5	0	
7	0	0	0	0		37	0	5	5	5	
8	0	0	0	0		38	10	10	10	10	
9	0	0	0	0		39	0	0	5	5	
10	0	0	0	0		40	0	5	0	5	
11	0	0	0	0		41	10	5	0	0	
12	0	0	0	0		42	5	0	0	5	
13	0	0	0	0		43	5	5	5	5	
14	0	0	0	0		44	5	5	5	5	
15	0	0	0	0		45	5	10	5	10	
16	0	0	0	0		46	5	5	5	5	
17	0	0	0	0		47	5	5	10	5	
18	0	0	0	0		48	5	10	10	10	
19	0	0	0	0		49	15	10	0	5	
20	0	0	0	0		50	10	10	10	10	
21	0	0	0	0		51	5	5	5	10	
22	0	0	0	0		52	10	15	10	5	
23	0	0	0	0		53	10	10	5	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	5	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 11/16/07
OBSERVER: R. BISHOP
START: 8:38 am pm
FINISH: 11:15 am pm
Source:
BLAST FURNACE C
NORTH CAST HOUSE
Observation Point
PHYSICAL FITNESS
PARKING LOT
distance from: 450'
direction from: NE
source height:
70' - 100'
wind direction N
wind speed 5-10 MPH
sky condition OVERCAST
amb. temp. (F) 45°-50°
color of emissions WHITE
UNLESS NOTED
other:
- STARTED DRILLING AT 8:45"
- PLUGGED UP AT 11:00
Remarks;
Observer's Signature

8:00													
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS		
0						30							
1						31							
2						32							
3						33							
4						34							
5						35							
6						36							
7						37							
8						38	○	○	○	○			
9						39	○	○	○	○			
10						40	○	○	○	○			
11						41	○	○	○	○			
12						42	○	○	○	○			
13						43	○	○	○	○			
14						44	○	○	○	○			
15						45	○	○	○	○			
16						46	○	○	○	○			
17						47	○	○	○	○			
18						48	○	○	○	○			
19						49	○	○	○	○			
20						50	○	○	○	○			
21						51	○	○	○	○			
22						52	○	○	○	○			
23						53	○	○	○	○			
24						54	○	○	○	○			
25						55	○	○	○	○			
26						56	○	○	○	○			
27						57	○	○	○	○			
28						58	○	○	○	○			
29						59	○	○	○	○			

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 11/16/07
OBSERVER: R. BINGHAM
START: 9:30 am pm
FINISH: 11:15 am pm
Source:
BLAST FURNACE C
NORTH CAST HOUSE
Observation Point
PYTHON FITNESS
PARKING LOT
distance from: 450'
direction from: NE
source height:
70' - 100'
wind direction N
wind speed 5-10 MPH
sky condition OVERCAST
amb. temp. (F) 45°-50°
color of emissions WHITE
UNLESS NOTED
other:
- STARTED DRILLING AT 9:45
- PLUGGED UP AT 11:03
Remarks:
Observer's Signature

10:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	0	0	0	0	
1	0	0	0	0		31	0	0	0	0	
2	0	0	0	0		32	0	0	0	0	
3	0	0	0	0		33	0	0	0	0	
4	0	0	0	0		34	0	0	0	0	
5	6	0	0	6		35	0	0	0	0	
6	0	0	0	0		36	0	0	0	0	
7	0	0	0	0		37	0	0	0	0	
8	0	0	0	0		38	0	0	0	0	
9	0	0	0	0		39	0	0	0	0	
10	0	0	0	0		40	0	0	0	0	
11	0	0	0	0		41	0	0	0	0	
12	0	0	0	0		42	0	0	0	0	
13	0	0	0	0		43	0	0	0	0	
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Last Certification Date

10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 11/14/08
OBSERVER: R. BINGHAM
START: 9:38 (am) pm
FINISH: 11:15 (am) pm
Source:
BLAST FURNACE C
NORTH CAST HOUSE
Observation Point
PHYSICAL FITNESS
PARKING LOT
distance from: 450'
direction from: NE
source height:
70' - 100'
wind direction NE
wind speed 10 MPH
sky condition OVERCAST
amb. temp. (F) 40° - 45°
color of emissions WHITE
UNLESS NOTED
other;
- STARTED DRILLING AT 9:45'
- PLUGGED UP AT 11:08
Remarks;
Observer's Signature

11:00						11:00					
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	○	○	○	○		30					
1	○	○	○	○		31					
2	○	○	○	○		32					
3	○	○	○	○		33					
4	○	○	○	○		34					
5	○	○	○	○		35					
6	○	○	○	○		36					
7	○	○	○	○		37					
8	○	○	○	○		38					
9	○	○	○	○		39					
10	○	○	○	○		40					
11	○	○	○	○		41					
12	○	○	○	○		42					
13	○	○	○	○		43					
14	○	○	○	○		44					
15	○	○	○	○		45					
16						46					
17						47					
18						48					
19						49					
20						50					
21						51					
22						52					
23						53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 11/10/07
OBSERVER: R. Binschow
START: 9:30 am pm
FINISH: 10:37 am pm
Source:
BLAST FURNACE C
EAST CAST HOUSE
Observation Point
GRAVEL OFF OF ROAD B, SOUTH OF EAST CAST HOUSE
distance from: 250' - 300'
direction from: S
source height:
50' - 100'
wind direction NNE
wind speed 5-10 MPH
sky condition BROKEN
amb. temp. (F) 45°-50°
color of emissions BROWN
UNLESS NOTED
other:
DRILLED AT 9:42
PLUGGED AT 10:32
Remarks;
Observer's Signature

9:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	0	0	0	0	
1						31	0	0	0	0	
2						32	0	0	0	0	
3						33	0	0	0	0	
4						34	0	0	0	0	
5						35	0	0	0	0	
6						36	0	0	0	0	
7						37	0	0	0	0	
8						38	0	0	0	0	
9						39	0	0	0	0	
10						40	0	0	0	0	
11						41	0	0	0	0	
12						42	0	0	0	0	
13						43	0	0	0	0	
14						44	0	0	0	0	
15						45	0	0	0	0	
16						46	0	0	0	0	
17						47	0	0	0	0	
18						48	0	0	0	0	
19						49	0	0	0	0	
20						50	0	0	0	0	
21						51	0	0	0	0	
22						52	0	0	0	0	
23						53	0	0	0	0	
24						54	0	0	0	0	
25						55	0	0	0	0	
26						56	0	0	0	0	
27						57	0	0	0	0	
28						58	0	0	0	0	
29						59	0	0	0	0	

R. Binschow

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 11/10/09
OBSERVER: R. Binkowski
START: 9:30 am pm
FINISH: 10:37 am pm
Source:
BLAST FURNACE C
EAST EAST House
Observation Point
GRAVEL OFF OF ROAD B, SOUTH
OF EAST EAST HOUSE
distance from: 250' - 300'
direction from: S
source height:
50' - 100'
wind direction NNE
wind speed 5 - 10 mph
sky condition BROKEN
amb. temp. (F) 45°-50°
color of emissions BROWN
UNLESS NOTED
other;
DRILLED AT 9:42
PLUGGED AT 10:32
Remarks;
⚠ WHITE EMISSIONS FROM EAST EAST HOUSE
Observer's Signature

10:00						10:00					
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	0	0	5	0	⚠
1	0	0	0	0		31	0	5	0	0	⚠
2	0	0	0	0		32	0	0	0	0	
3	0	0	0	0		33	0	0	0	6	
4	0	0	0	0		34	0	0	0	0	
5	0	0	0	0		35	0	0	0	0	
6	0	0	0	0		36	0	0	0	0	
7	0	0	0	0		37	0	0	0	0	
8	0	0	0	0		38	0	0	0	0	
9	0	0	0	0		39					
10	0	0	0	0		40					
11	0	0	0	0		41					
12	0	0	0	0		42					
13	0	0	0	0		43					
14	0	0	0	0		44					
15	0	0	0	0		45					
16	0	0	0	0		46					
17	0	0	0	0		47					
18	0	0	0	0		48					
19	0	0	0	0		49					
20	0	0	0	0		50					
21	0	0	0	0		51					
22	0	0	0	0		52					
23	0	0	0	0		53					
24	0	0	0	0		54					
25	0	0	0	0		55					
26	0	0	0	0		56					
27	0	0	0	0		57					
28	0	0	0	0		58					
29	10	5	5	5	⚠	59					

Last Certification Date 10/07/08

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 11/02/08
OBSERVER: R. BINGHAM
START: 8:09 (am) pm
FINISH: 8:59 (am) pm
Source:
BLAST FURNACE C
EAST COAST HOUSE
Observation Point
PCI SILO PARKING LOT
BY GATE 3A
distance from: 350'
direction from: SE
source height:
100'
wind direction SE
wind speed 0-5 MPH
sky condition BROKEN
amb. temp. (F) 35°-40°
color of emissions WHITE
UNLESS NOTED
other:
COLLED TO CONFIRM, PLUGGED AT 7:51 A.M. DRILLED AT 8:12 A.M.
Remarks:
* EMISSIONS COMING FROM EAST COAST HOUSE
Observer's Signature

8:00

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	0	0	0	0	
1						31	0	0	0	0	
2						32	0	0	0	0	
3						33	0	6	0	0	
4						34	0	0	0	0	
5						35	0	0	0	0	
6						36	0	0	0	0	
7						37	0	0	0	0	
8						38	0	0	0	0	
9	0	0	0	0		39	0	0	0	0	
10	0	0	0	0		40	0	0	0	0	
11	0	0	0	0		41	0	0	0	0	
12	0	0	0	0		42	0	0	0	0	
13	0	0	0	0		43	0	0	0	0	
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50	0	0	0	0	
21	0	0	0	0		51	0	0	0	0	
22	0	0	0	0		52	0	0	0	0	
23	0	0	0	0		53	0	0	0	0	
24	0	0	0	0		54	0	0	0	0	
25	0	0	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 11/07/07
OBSERVER: R. BINGHAM
START: 8:07 am pm
FINISH: 9:57 am pm
Source:
BLAST FURNACE C
EAST CAST HOUSE
Observation Point
PCI SILO PARKING LOT
NGAR GATE 3A
distance from: 350'
direction from: SE
source height:
100'
wind direction SE
wind speed 0-5 MPH
sky condition BROKEN
amb. temp. (F) 35° - 40°
color of emissions WHITE
UNLESS NOTED
other:
CALLED TO CONFIRM, PLUGGED AT 9:51 AM. DRILLED AT 9:12 AM.
Remarks:
* EMISSIONS COMING FROM EAST CAST HOUSE
Observer's Signature

9:00						9:15					
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	10	15	10	15	
1	0	0	0	0		31	5	10	5	5	
2	0	0	0	0		32	5	5	5	5	
3	0	0	0	0		33	5	5	0	5	
4	0	0	0	0		34	0	5	5	5	
5	0	0	0	0		35	10	5	5	5	
6	0	0	0	0		36	5	5	5	10	
7	0	0	0	0		37	5	10	15	10	
8	0	0	0	0		38	15	15	15	15	
9	0	0	0	0		39	15	15	15	10	
10	0	0	0	0		40	15	15	15	10	
11	0	0	0	0		41	15	15	15	10	
12	0	0	0	0		42	10	10	10	10	
13	0	0	0	0		43	15	10	15	10	
14	0	0	0	0		44	15	15	10	10	
15	0	0	0	0		45	10	15	15	10	
16	0	0	0	0		46	15	10	10	15	
17	0	0	0	0		47	10	15	15	20	
18	0	0	0	0		48	15	15	10	15	
19	0	0	0	0		49	20	15	10	15	
20	0	0	0	0		50	10	10	15	10	
21	0	0	0	0		51	10	5	5	0	
22	0	0	0	0		52	5	10	20	15	
23	0	0	0	0		53	5	5	0	0	
24	0	5	0	0		54	5	5	5	5	
25	0	0	0	0		55	5	5	5	5	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	10	10	10	*	59					

Observer's Signature

R. Bef

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

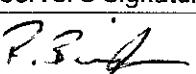
DATE: 10/29/07	10am drilled out										
OBSERVER: R. BUCHANAN											
START: 10:00 am	pm										
FINISH: 10:30 am	pm										
Source:											
BLAST FURNACE C											
NORTH CAST HOUSE											
Observation Point											
PHYSICAL FITNESS											
PARKING LOT											
distance from: 400'											
direction from: NE											
source height:											
100'											
wind direction ENE											
wind speed 5-10 MPH											
sky condition OVERCAST											
amb. temp. (F) 45°-50°											
color of emissions WHITE											
UNLESS NOTED											
other:											
# RUSTY COLOR CO											
FROM NORTH CAST											
HOUSE											
Remarks:											
CALLED TO CONFIRM											
PLUGGING AT 10:47 AM -											
PLUGGED AT 10:40 AM.											
Confirmed drilled out											
@ 10:00 am to start cast (EMB)											
Observer's Signature											

10:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	0	0	0	0	
1	0	0	0	0		31	0	0	0	0	
2	0	0	0	0		32	0	0	0	0	
3	0	0	0	0		33	0	0	0	0	
4	0	0	0	0		34	0	0	0	0	
5	0	0	0	0		35	0	0	0	0	
6	0	0	0	0		36	0	0	0	0	
7	0	0	0	0		37	0	0	0	0	
8	0	0	0	0		38	0	0	0	0	
9	0	0	0	0		39	0	0	0	0	
10	0	0	0	0		40	0	0	15	0	*
11	0	0	0	0		41	0	0	0	0	
12	0	0	0	0		42	0	0	0	0	
13	0	0	0	0		43	0	0	0	0	
14	0	0	0	0		44	0	0	0	0	
15	0	0	0	0		45	0	0	0	0	
16	0	0	0	0		46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	0	0	
19	0	0	0	0		49	0	0	0	0	
20	0	0	0	0		50					
21	0	0	0	0		51					
22	0	0	0	0		52					
23	0	0	0	0		53					
24	0	0	0	0		54					
25	0	0	0	0		55					
26	0	0	0	0		56					
27	0	0	0	0		57					
28	0	0	0	0		58					
29	0	0	0	0		59					

R.B.G.

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 10/21/07
OBSERVER: P. BINGHAM
START: 7:45 am pm
FINISH: 10:28 am pm
Source:
C BLAST FURNACE (East Ch)
Observation Point
PNY'S. FINNESS BLDG.
PARKING LOT
distance from: 400' 500'
direction from: NW
source height: 100'
wind direction SSW
wind speed 0-5 mph
sky condition OVERCAST
amb. temp. (F) 50°-55°
color of emissions BLACK
UNLESS NOTED
other;
Remarks;
CALLING AT 10:01 - JUST STARTED DRILLING
Observer's Signature


7:00											
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30					
1						31					
2						32					
3						33					
4						34					
5						35					
6						36					
7						37					
8						38					
9						39					
10						40					
11						41					
12						42					
13						43					
14						44					
15						45	○	○	○	○	
16						46	○	○	○	○	
17						47	○	○	○	○	
18						48	○	○	○	○	
19						49	○	○	○	○	
20						50	○	○	○	○	
21						51	○	○	○	○	
22						52	○	○	○	○	
23						53	○	○	○	○	
24						54	○	○	○	○	
25						55	○	○	○	○	
26						56	○	○	○	○	
27						57	○	○	○	○	
28						58	○	○	○	○	
29						59	○	○	○	○	

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 10/21/07
OBSERVER: R. BINGHAM
START: 8:45 am pm
FINISH: 10:38 am pm
Source:
C BLAST FURNACE
Observation Point
PNS. FITNESS BLDG.
PARKING LOT
distance from: 400' - 450'
direction from: NW
source height: 100'
wind direction SSW
wind speed 0-5 MPH
sky condition overcast
amb. temp. (F) 50° - 55°
color of emissions black
UNLESS NOTED
other:
Remarks:
* EMISSIONS FROM ROOF
- PLUGGED UP AT 10:32
Observer's Signature

10:00						10:00					
MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30	50	40	40	30	H.2%
1	0	0	0	0		31	20	10	5	0	
2	0	0	0	0		32	0	0	0	0	
3	0	0	0	0		33	0	0	0	0	
4	0	0	0	0		34	0	0	0	0	
5	0	0	0	0		35	0	0	0	0	
6	0	0	0	0		36	0	0	0	0	
7	0	0	0	0		37	0	0	0	0	
8	0	0	0	0		38					
9	0	0	0	0		39					
10	0	0	0	0		40					
11	0	0	0	0		41					
12	0	0	0	0		42					
13	0	0	0	0		43					
14	0	0	0	0		44					
15	0	0	0	0		45					
16	0	0	0	0		46					
17	0	0	0	0		47					
18	0	0	0	0		48					
19	0	0	0	0		49					
20	0	0	0	0		50					
21	0	0	0	0		51					
22	0	0	0	0		52					
23	0	0	0	0		53					
24	0	0	0	0		54					
25	5	5	10	10	*	55					
26	N	10	15	15		56					
27	10	10	5	0		57					
28	0	0	0	0		58					
29	0	20	50	50		59					

Observer's Signature

R. B.  
Bing

Last Certification Date 10/07/07

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 10-15-09
OBSERVER: T. SitarSKI
START: 920 am pm
FINISH: 953 am pm
Source: C Blast Furnace North Cast House
Observation Point: Parking at Behind Physical Fitness Center
distance from: 400ft
direction from: NE
source height: 100F
wind direction NE
wind speed 10-15 mph
sky condition Overcast
amb. temp. (F) 37-45°
color of emissions
White unless noted
other:
<input checked="" type="checkbox"/> Light Brown emission from west roof
<input checked="" type="checkbox"/> Light Brown emissions from furnace wall
Remarks:
* Drilled out ≈ 920
Observer's Signature


9:00 AM

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	○ ○ ○ 5				A
1						31	5 5 5 0				"
2						32	○ 5 5 5				"
3						33	5 5 0 0				"
4						34	○ ○ ○ ○				
5						35	○ ○ ○ ○				
6						36	○ ○ ○ ○				
7						37	○ ○ ○ ○				
8						38	○ ○ ○ ○				
9						39	○ ○ ○ ○				
10						40	○ ○ ○ ○				
11						41	○ ○ ○ ○				
12						42	○ ○ ○ ○				
13						43	○ ○ ○ ○				
14						44	○ ○ ○ ○				
15						45	○ ○ ○ ○				
16						46	○ ○ ○ ○				
17						47	○ ○ ○ ○				
18						48	○ ○ ○ ○				
19	○	○ ○ ○ ○				49	○ ○ ○ ○				
20	○	○ ○ ○ ○				50	○ ○ ○ ○				
21	○	○ ○ ○ ○				51	○ ○ ○ ○				
22	○	○ ○ ○ ○				52	○ ○ ○ ○				
23	○	○ ○ ○ ○				53	○ ○ ○ ○				
24	5	5 5 5 5	A			54	○ ○ ○ ○				
25	5	5 5 5 5	"			55	○ ○ ○ ○				
26	○	○ ○ ○ ○				56	○ ○ ○ ○				
27	○	○ ○ ○ ○				57	○ ○ ○ ○				
28	○	○ ○ ○ ○				58	○ ○ ○ ○				
29	○	○ ○ ○ ○				59	○ ○ ○ ○				

Last Certification Date 10-6-09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 10-15-09
OBSERVER: Tim SitarSKI
START: 9:20 am pm
FINISH: 10:30 am pm
Source: C Blast Furnace North Cast House
Observation Point
Physical Fitness Center Parking Lot
distance from: 400 Ft
direction from: NNE
source height: 100 Ft
wind direction NE
wind speed 10-15 mph
sky condition Overcast
amb. temp. (F) 37-45°
color of emissions
White unless noted
other:
Remarks:
* Blast Furnace N. Cast House drilled out of 9:53

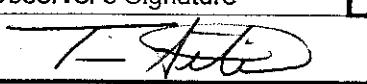
10:00 AM

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	○	○	○	○		30					
1	○	○	○	○		31					
2	○	○	○	○		32					
3	○	○	○	○		33					
4	○	○	○	○		34					
5	○	○	○	○		35					
6	○	○	○	○		36					
7	○	○	○	○		37					
8	○	○	○	○		38					
9	○	○	○	○		39					
10	○	○	○	○		40					
11	○	○	○	○		41					
12	○	○	○	○		42					
13	○	○	○	○		43					
14	○	○	○	○		44					
15	○	○	○	○		45					
16	○	○	○	○		46					
17	○	○	○	○		47					
18	○	○	○	○		48					
19	○	○	○	○		49					
20	○	○	○	○		50					
21	○	○	○	○		51					
22	○	○	○	○		52					
23	○	○	○	○		53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					

Observer's Signature

Last Certification Date 10-6-09

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 10-10-09
OBSERVER: Tim Starski
START 09:24 am pm
FINISH: am pm
Source: C Blast Furnace East Cast House
Observation Point Parking Lot next to PCT Site
distance from:
direction from:
source height: 100 Ft
wind direction WNW
wind speed 5-10 mph
sky condition Broken
amb. temp. (F) 40-45
color of emissions White unless noted
other: Drilled out at 09:24
Remarks: A Black smoke from entire roof
A White emissions from west side of East cast house
Observer's Signature 

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0						30	0	0	0	0	
1						31	0	0	0	0	
2						32	0	0	0	0	
3						33	0	0	0	0	
4						34	0	0	0	0	
5						35	0	0	0	0	
6						36	0	0	0	0	
7						37	0	0	0	0	
8						38	0	0	0	0	
9						39	0	0	0	0	
10						40	0	0	0	0	
11						41	0	0	0	0	
12						42	0	0	0	0	
13						43	5	5	0	0	
14						44	0	0	0	0	
15						45	0	0	0	0	
16						46	0	0	0	0	
17	0	0	0	0		47	0	0	0	0	
18	0	0	0	0		48	0	0	5	5	
19	0	5	5	5	A	49	5	0	0	0	
20	5	5	5	10	A	50	0	0	0	0	
21	10	10	10	15	A	51	0	0	0	0	
22	20	30	30	15	A	52	0	0	0	0	
23	15	10	10	10	A	53	0	0	0	0	
24	5	5	5	5	A	54	0	0	0	0	
25	5	5	0	0		55	0	0	0	0	
26	0	0	0	0		56	0	0	0	0	
27	0	0	0	0		57	0	0	0	0	
28	0	0	0	0		58	0	0	0	0	
29	0	0	0	0		59	0	0	0	0	

Last Certification Date 10-6-09

\* Official start time according to CBlast Furnace personnel was 9:24. However, black emissions seen at 9:19-9:23 my time.

**SEVERSTAL NORTH AMERICA, INC. VISIBLE EMISSIONS EVALUATION FORM**

DATE: 10-10-09
OBSERVER: Tim Sitarzki
START: 9:44 am pm
FINISH: 10:05 am pm
Source: C Blast Furnace East Cast House
Observation Point
Parking Lot next to PCI Stl's
distance from: 350-400'
direction from: ESE
source height: 100'
wind direction WNW
wind speed 5-10
sky condition Broken
amb. temp. (F) 40-45
color of emissions
White unless noted
other:
(3) Brown emissions from west side of East cast house
Remarks;
Plugged at 10:07
Observer's Signature

10:00 AM

MIN	0	15	30	45	REMARKS	MIN	0	15	30	45	REMARKS
0	0	0	0	0		30					
1	0	0	0	0		31					
2	0	0	0	0		32					
3	0	0	5	10	A	33					
4	10	20	20	20	A	34					
5	15	5	5	0		35					
6	0	0	0	0		36					
7	0	0	0	0		37					
8	0	0	0	0		38					
9	0	0	0	0		39					
10	0	0	0	0		40					
11	0	0	0	0		41					
12	0	0	0	0		42					
13	0	0	0	0		43					
14	0	0	0	0		44					
15	0	0	0	0		45					
16	0	0	8	0		46					
17	0	0	0	0		47					
18	0	0	0	0		48					
19	0	0	0	0		49					
20	0	0	0	0		50					
21	0	0	0	0		51					
22						52					
23						53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					

Last Certification Date

10-6-09